

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE N/A		PAGE 1 OF PAGES 136		
2. AMENDMENT/MODIFICATION NO. 0005		3. EFFECTIVE DATE 14 JUN 02		4. REQUISITION/PURCHASE REQ. NO. N/A		5. PROJECT NO. (If applicable) SPEC. NO. 1182	
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
DEPARTMENT OF THE ARMY U.S. ARMY ENGINEER DISTRICT, SACRAMENTO CORPS OF ENGINEERS 1325 J STREET SACRAMENTO, CALIFORNIA 95814-2922				DISTRICT ENGINEER U.S. ARMY ENGINEER DISTRICT, SACRAMENTO 1325 J STREET SACRAMENTO, CALIFORNIA 95814-2922 ATTN: CONTRACTING DIVISION			

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		<div style="display: flex; flex-direction: column; align-items: center;"> <div>(✓)</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 5px;"></div> <div>(X)</div> </div>	9A. AMENDMENT OF SOLICITATION NO. DACW05-02-B-0005
			9B. DATED (SEE ITEM 11) 02 MAY 16
			10A. MODIFICATION OF CONTRACTS/ORDER NO. N/A
			10B. DATED (SEE ITEM 13) N/A
CODE		FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
GUADALUPE RIVER PROJECT, CONSTRUCTION CONTRACT 3A, PHASE 1
SAN JOSE, CALIFORNIA

- 2 ENCLS**

1) REVISIONS: TABLE OF CONTENTS, SF 1442 (2 PAGES), PRICING SCHEDULE (3 PAGES), 00100 (2 PAGES), 00600 (2 PAGES), 00700 (13 PAGES), INDEX ATTACHMENTS, ATTACHMENTS 3 & 5 (10 PAGES), TABLE OF CONTENTS (3 PAGES), 01270 (13 PAGES), SUB. REGISTER (31 PAGES), 02217 (6 PAGES), 02541 (11 PAGES), 01500-30, 02080-1 & 02080-5.

2) WAGE RATE CA 020029 MOD 9, REPLACES EXISTING WAGE RATE IN ITS ENTIRETY.

NOTE: DELETE SECTION 07131 IN ITS ENTIRETY.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
<div style="border-top: 1px solid black; text-align: center;">(Signature of person authorized to sign)</div>		<div style="border-top: 1px solid black; text-align: center;">BY (Signature of Contracting Officer)</div>	
15C. DATE SIGNED		16C. DATE SIGNED	

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105-02

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

USAPPC V2.00

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COVER SHEET
CENTRAL CONTRACTOR REGISTRATION (CCR)
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DD FORM 1707

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TECHNICAL SPECIFICATIONS

(SEE TECHNICAL SPECIFICATIONS' TABLE OF CONTENTS FOR
SPECIFICATION SECTIONS INCLUDED IN THIS SOLICITATION/CONTRACT)

DRAWINGS (SEPARATE PACKAGE)

NOTE:

AS A MINIMUM ANY CONTRACT AWARDED AS A RESULT OF THIS
SOLICITATION SHALL CONSIST OF THE FOLLOWING DOCUMENTS:

STANDARD FORM 1442, SECTIONS 00010, 00700, 00800, TECHNICAL
SPECIFICATIONS AND DRAWINGS, AND ATTACHMENTS AS DESCRIBED IN
CONTRACT DOCUMENT.

SECTION 00600, AS COMPLETED BY AWARDEE, IS INCORPORATED INTO
ANY RESULTANT CONTRACT BY REFERENCE.

SECTION 00100 IS INCLUDED FOR SOLICITATION PURPOSES ONLY. THIS
SECTION WILL BE REMOVED, MAINTAINED IN THE CONTRACT FILE AND
NOT MADE PART OF THE CONTRACT.

AMENDMENTS ARE INCORPORATED INTO THE RESULTANT CONTRACT.

SUBCONTRACTING PLAN (IF REQUIRED) BECOMES AN ATTACHMENT TO AND A
MATERIAL PART OF THE CONTRACT.

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. DACW05-02-B-0005	2. TYPE OF SOLICITATION <input checked="checked" type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED(RFP)	3. DATE ISSUED 16-May-2002	PAGE OF PAGES 1 OF 202
IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.				
4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO.		6. PROJECT NO.	
7. ISSUED BY DEPARTMENT OF THE ARMY CORPS OF ENGRS, SACRAMENTO 1325 J STREET SACRAMENTO CA 95814-2922 TEL: FAX:	CODE DACW05	8. ADDRESS OFFER TO <i>(If Other Than Item 7)</i> CODE See Item 7		
9. FOR INFORMATION CALL:	A. NAME COLLEEN BROUSSARD-PERRY		B. TELEPHONE NO. <i>(Include area code)</i> <i>(NO COLLECT CALLS)</i> 916 557-5232	
SOLICITATION				
NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".				
10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS <i>(Title, identifying no., date):</i> GUADALUPE RIVER PROJECT, CONTRACT 3A, PHASE I SAN JOSE, CALIFORNIA SPECIFICATION NO. 1182 DESCRIPTION: CONSTRUCTION OF FLOOD CONTROL AND ENVIRONMENTAL RESTORATION FEATURES ALONG THE GUADALUPE RIVER BETWEEN SANTA CLARA STREET AND UPRR BRIDGE NO. 4 (CE -LINE STATION 20+00) IN SAN JOSE. CALIFORNIA. Any Contract awarded under this solicitation will be made pursuant to Public Law 100-656, Small Business Competitiveness Demonstration Program. See DD Form 1707, Block 6 for unrestricted/set-aside information. ESTIMATED COST RANGE OF PROJECT: \$25,000,000 - \$100,000,000				
11. The Contractor shall begin performance within <u>10</u> calendar days and complete it within <u>912</u> calendar days after receiving <input type="checkbox"/> award, <input checked="checked" type="checkbox"/> notice to proceed. This performance period is <input checked="checked" type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. <i>(See FAR 52.211-10 .)</i>				
12 A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO			12B. CALENDAR DAYS 10	
13. ADDITIONAL SOLICITATION REQUIREMENTS: A. Sealed offers in original and <u>0</u> copies to perform the work required are due at the place specified in Item 8 by <u>13:00:00</u> <i>(hour)</i> local time <u>6/27/02</u> <i>(date)</i> . If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due. B. An offer guarantee <input checked="checked" type="checkbox"/> is, <input type="checkbox"/> is not required. C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference. D. Offers providing less than <u>90</u> calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.				

SOLICITATION, OFFER, AND AWARD*(Construction, Alteration, or Repair)***OFFER (Must be fully completed by offeror)**14. NAME AND ADDRESS OF OFFEROR *(Include ZIP Code)*15. TELEPHONE NO. *(Include area code)*16. REMITTANCE ADDRESS *(Include only if different than Item 14)*

CODE

FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. *(Insert any number equal to or greater than the minimum requirements stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)*

AMOUNTS

SEE SCHEDULE OF PRICES

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGMENT OF AMENDMENTS*(The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each)*

AMENDMENT NO.

DATE

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN
OFFER *(Type or print)*

20B. SIGNATURE

20C. OFFER DATE

AWARD (To be completed by Government)

21. ITEMS ACCEPTED:

22. AMOUNT

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES TO ADDRESS SHOWN
*(4 copies unless otherwise specified)***ITEM**

25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO

☐ 10 U.S.C. 2304(c)☐ 41 U.S.C. 253(c)

26. ADMINISTERED BY

CODE

27. PAYMENT WILL BE MADE BY

CODE

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

28. NEGOTIATED AGREEMENT *(Contractor is required to sign this document and return _____ copies to issuing office.)* Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.



29. AWARD *(Contractor is not required to sign this document.)*

Your offer on this solicitation, is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON
TO SIGN *(Type or print)*31A. NAME OF CONTRACTING OFFICER *(Type or print)*

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA
BY

31C. AWARD DATE

SECTION 00010 Solicitation Contract Form

PRICING SCHEDULE

CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, MATERIAL, EQUIPMENT, ETC. NECESSARY TO PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE CONTRACT TO INCLUDE ALL ATTACHMENTS THERETO.

LINE ITEM NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE	UNIT PRICE	TOTAL PRICE
0001	MOBILIZATION/ DEMOLITION	1	JOB	LUMP SUM	\$_____
0002	DEMOLITION	1	JOB	LUMP SUM	\$_____
0003	PERMANENT FENCING	1,900*	LF	\$_____	\$_____
0004	OLD JULIAN STREET BRIDGE DEMOLITION	1	JOB	LUMP SUM	\$_____
0005	DEWATERING AND SURFACE WATER CONTROL	1	JOB	LUMP SUM	\$_____
0006	WATER TREATMENT				
0006AA	WASTEWATER TREATMENT SYSTEM	1	JOB	LUMP SUM	\$_____
0006AB	OPERATION	21*	WEEK	\$_____	\$_____
0006AC	CARBON FILTERS	60*	TON	\$_____	\$_____
0007	EXCAVATION	147,700*	CY	\$_____	\$_____
0008	SPECIAL SOIL HANDLING AND DISPOSAL				
0008AA	HAZARDOUS WASTE	160*	TON	\$_____	\$_____
0008AB	DESIGNATED WASTE	160*	TON	\$_____	\$_____
0009	CONCRETE BOX CULVERTS INCL. INLET STRUCTURES	1	JOB	LUMP SUM	\$_____
0010	BACKFILL	28,170*	CY	\$_____	\$_____
0011	NEW JULIAN STREET CLOSURE & RESTORATION	1	JOB	LUMP SUM	\$_____
0012	ST. JOHN STREET DEMOLITION AND RESTORATION	1	JOB	LUMP SUM	\$_____

0013	SOBRATOE PROERTY RESTORATION	1	JOB	LUMP SUM	\$_____
0014	ST. JOHN STREET SANITARY SEWER	1	JOB	LUMP SUM	\$_____
0015	OLD JULIAN STREET SANITARY SEWER	1	JOB	LUMP SUM	\$_____
0016	SIDE DRAINS NO. 1 THRU 3 AND TEMPORARY OUTLET	1	JOB	LUMP SUM	\$_____
0017	CELLULAR CONC. MAT	2,050*	SY	\$_____	\$_____
0018	GABIONS	360*	CY	\$_____	\$_____
0019	CRUSHED ROCK	990*	TON	\$_____	\$_____
0020	TYPE 1 FILTER FABRIC	1,590*	SY	\$_____	\$_____
0021	TERRACE WALL CONC.	210*	CY	\$_____	\$_____
0022	DRILLED PIER RETAINING WALLS	1	JOB	LUMP SUM	\$_____
0023	RIVERWALK/ MAINTENANCE ROAD	4,580*	LF	\$_____	\$_____
0024	RIVERWALK STAIRS	1	JOB	LUMP SUM	\$_____
0025	DECORATIVE PEDESTRIAN RAILING	1	JOB	LUMP SUM	\$_____
0026	DECORATIVE PAVING	1	JOB	LUMP SUM	\$_____
0027	LANDSCAPING	1	JOB	LUMP SUM	\$_____
0028	IRRIGATION SYSTEM	1	JOB	LUMP SUM	\$_____
0029	ELECTRICAL WORK	1	JOB	LUMP SUM	\$_____
0030	SITE AMENITIES	1	JOB	LUMP SUM	\$_____
0031	DELETED				

SUBTOTAL ESTIMATED PRICE \$_____

OPTION

0032	TEMPORARY INLET BULKHEADS (2X)	1	JOB	LUMP SUM	\$_____
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TOTAL ESTIMATED PRICE \$_____

* QUANTITY IS AN ESTIMATED AMOUNT. SEE SECTION 00700, FAR 52.211-18, FOR VARIATION IN ESTIMATED QUANTITY CONTRACT CLAUSE.

1. Prices must be submitted on all individual items of this Pricing Schedule. Failure to do so may be cause for rejection of bids.
2. If a modification to a price based on unit price is submitted which provides for a lump sum adjustment to the total estimated price, the applications of the lump sum adjustment to each unit price in the Pricing Schedule must be stated. If it is not stated, the bidder/offeror agrees that the lump sum adjustment shall be applied on a pro rata basis to every unit price in the Pricing Schedule.
3. The bidder/offeror shall distribute his indirect costs (overhead, profit, bond, etc.) over all the items in the Pricing Schedule. The Government will review all submitted Pricing Schedules for any unbalancing of the items. Any submitted Pricing Schedule determined to be unbalanced may be considered nonresponsive and cause the bidder to be ineligible for award.
4. The lump sum, "LS", line items above are not "estimated quantity" line items and therefore are not subject to the Variation in Quantity contract clause.
5. The successful bidder/offeror grants the options listed in the Pricing Schedule to the Government. The option may be exercised at any time up to within **60** calendar days of the contract completion date. Exercise of the option occurs upon mailing of written notice to the Contractor. Exercise will be made by the Contracting Officer. The price for exercise of the option includes all work and effort associated with the scope of that item. For determination of lowest bid, see paragraph titled EVALUATION OF OPTIONS in Section 00100 of this solicitation. No additional time for contract completion will be allowed when an option is exercised. The given contract completion time was formulated to include time necessary to perform all option work.
- ~~6. Davis-Bacon Act Wage Determinations for Option Periods~~
 - ~~a. Upon exercise of an option to extend the term of the contract, the most current Davis-Bacon Act wage determination(s) from the same schedule(s) as the wage determination(s) incorporated into the original contract will be incorporated into the modified contract.~~
 - ~~b. In accordance with FAR 52.222-30, Davis-Bacon Act Price Adjustment (None or Separately Specified Pricing Method), provided in full text in Section 00700, no adjustments in contract price will be made as a result of incorporation of the new wage determination(s). The solicitation provides the opportunity to bid or propose separate prices for each option period. The option prices may include an amount to cover estimated increases.~~
 - ~~c. For indefinite delivery type contracts, the wage determination incorporated into the contract at the exercise of the option will be incorporated into task orders issued during that option period. The wage determination will be effective for the complete period of performance of those task orders without further revision.~~

FAX: (916) 557-7854, Attn: Collen Broussard-Perry

E-MAIL: Colleen.C.Broussard-Perry@usace.army.mil AND
Ronald.A.Schunk@usace.army.mil.

(4) Please include the solicitation number, the project title, the location of the project, the full name of your company and your telephone and FAX numbers in your correspondence. Written inquiries should be received by this office not later than 14 calendar days prior to the date set for bid opening.

(5) Oral explanations or instructions are not binding. Changes to the solicitation can only be made by an amendment to the solicitation.

52.0214-4582 DIRECTIONS FOR SUBMITTING BIDS (DEC 2001)

Envelopes containing bids must be sealed, marked and addressed as follows:

MARK ENVELOPES:

Solicitation No. DACW05-02-B-0005
Bid Opening Date: 02 JUN 27
Bid Opening Time: 1:00 PM Local Time

ADDRESS ENVELOPES TO:

Department of the Army
U.S. Army Engineer District, Sacramento
ATTN: Contracting Division
1325 J Street
Sacramento CA 95814-2922

SPECIAL INSTRUCTIONS PERTAINING TO HAND-CARRIED BIDS:

Hand-carried bids must be delivered to: The Building Lobby at 1325 J Street, Sacramento, CA.

Due to security precautions, all Corps of Engineers visitors are now required to check in at the Security Desk in the Building Lobby. They may no longer hand-carry their bids directly to Contracting Division without an authorized escort. Bids may NOT be either turned-in or left unattended at the Security Desk or elsewhere in the Lobby.

The Bid Opening Officer will be in the Building Lobby 20 minutes prior to the scheduled bid opening to accept sealed bids. All bidders assembled in the Building Lobby will then be escorted as a group to the Bid Opening Room, where the bids will be publicly opened and read.

The Bid Opening Officer will be in the Building Lobby 20 minutes prior the scheduled bid opening to accept sealed bids. After announcing that no further bids will be received, the Bid Opening Officer will take the hand-carried bids and have them x-rayed as a security precaution. After the bids have been x-rayed, the bidders waiting in the Building Lobby will then be escorted as a group to the Bid Opening Room, where the bids will be publicly opened and read.

Bidders who desire to hand-deliver their bids at an earlier time must notify the contract specialist in advance to arrange to be met in the Building Lobby by Contracting Division personnel. In the event the contract specialist cannot be reached, please call the main Contracting Division telephone number, (916) 557-5201, in order to request assistance.

Please ensure that all courier and delivery personnel are aware of these procedures.

52.0209-4501 CONTRACTOR RESPONSIBILITY, PREAWARD SURVEY (JUL 1995)

In order to determine a contractor's responsibility for purposes of contract award in accordance with FAR Part 9, the contractor is required to provide a statement regarding previous experience and past performance in performing comparable work, information related to the business organization, financial resources, and/or plant to be used in performing the work (see Attachments, Preaward Survey). The Preaward Survey is attached to the solicitation for information purposes only. It will be required from only the low bidder. After the Bid Opening, the Government will request this information from the low bidder if the low bidder has not had a contract with the Sacramento District within the last twelve months and the Government will set a due date for its submission. The Preaward Survey is not required as part of the bid package.

In order to be determined to be responsible a prospective contractor must:

- a. Have adequate financial resources to perform the contract or the ability to obtain them.
- b. Be able to comply with the required or proposed delivery or performance schedule, taking into consideration all existing commercial and governmental business commitments.
- c. Have a satisfactory performance record. In making the determination of responsibility, the Government Contracting Officer shall consider relevant past performance information. A prospective contractor shall not be determined responsible or nonresponsible solely on the basis of a lack of relevant performance history except when there are special standards set forth in the solicitation which applies to all bidders that must be met in order to receive the award. These special standards may be necessary when unusual expertise or specialized facilities are necessary in the performance of the contract; therefore, in order to be determined to be responsible for that particular contract, the offeror must be able to meet those special standards. A prospective contractor that is or recently has been seriously deficient in contract performance shall be presumed to be nonresponsible unless the Contracting Officer determines that the circumstances were beyond the contractor's control or that the contractor has taken appropriate corrective action. Other responsibility considerations by the Contracting Officer will include past efforts by the contractor to apply sufficient tenacity and perseverance to perform acceptably, to meet quality requirements of contracts, and the contractor's past compliance with subcontracting plans (if required) under recent contracts.
- d. Have a satisfactory record of integrity and business ethics.
- e. Have the necessary organization, experience, accounting and operational controls, and technical skills, or the ability to obtain them (including, as appropriate, such elements as production control procedures, property control systems, quality assurance measures, and safety programs applicable to materials to be produced or services to be performed by the prospective contractor and subcontractors).
- f. Have the necessary production, construction, and technical equipment and facilities, or the ability to obtain them.
- g. Be otherwise qualified and eligible to receive an award under applicable laws and regulations.

(4) Federal Hazardous Substances Act; or

(5) Federal Alcohol Administration Act.

(c) The Offeror shall list which hazardous material listed in the Hazardous Material Identification and Material Safety Data clause of this contract will be labeled in accordance with one of the Acts in paragraphs (b)(1) through (5) of this clause instead of the Hazard Communication Standard. Any hazardous material not listed will be interpreted to mean that a label is required in accordance with the Hazard Communication Standard.

MATERIAL (If None, Insert "None.")

ACT

(d) The apparently successful Offeror agrees to submit, before award, a copy of the hazard warning label for all hazardous materials not listed in paragraph (c) of this clause. The Offeror shall submit the label with the Material Safety Data Sheet being furnished under the Hazardous Material Identification and Material Safety Data clause of this contract.

(e) The Contractor shall also comply with MIL-STD-129, Marking for Shipment and Storage (including revisions adopted during the term of this contract).

(End of clause)

252.247-7022 REPRESENTATION OF EXTENT OF TRANSPORTATION BY SEA (AUG 1992)

(a) The Offeror shall indicate by checking the appropriate blank in paragraph (b) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term supplies is defined in the Transportation of Supplies by Sea clause of this solicitation.

(b) Representation. The Offeror represents that it:

____ (1) Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

____ (2) Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(c) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense FAR Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

(End of provision)

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) [] It has, [] has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) [] It has, [] has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

(2) The Contractor's knowledge of the reasons for the subcontractor being on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.

(3) The compelling reason(s) for doing business with the subcontractor notwithstanding its inclusion on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.

(4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.

(End of clause)

52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 912 calendar days after receipt of notice to proceed. The time stated for completion shall include final cleanup of the premises.

(End of clause)

52.211-12 LIQUIDATED DAMAGES--CONSTRUCTION (SEP 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of \$2,060 for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

(End of clause)

~~52.211-13 TIME EXTENSIONS (SEP 2000)~~

~~Time extensions for contract changes will depend upon the extent, if any, by which the changes cause delay in the completion of the various elements of construction. The change order granting the time extension may provide that the contract completion date will be extended only for those specific elements related to the changed work and that the remaining contract completion dates for all other portions of the work will not be altered. The change order also may provide an equitable readjustment of liquidated damages under the new completion schedule.~~

~~(End of clause)~~

52.211-18 VARIATION IN ESTIMATED QUANTITY (APR 1984)

clause, or funding and other administrative changes.

(j) Interest computation on unearned amounts. In accordance with 31 U.S.C. 3903(c)(1), the amount payable under subparagraph (d)(2) of this clause shall be--

(1) Computed at the rate of average bond equivalent rates of 91-day Treasury bills auctioned at the most recent auction of such bills prior to the date the Contractor receives the unearned amount; and

(2) Deducted from the next available payment to the Contractor.

52.232-17 INTEREST (JUNE 1996)

(a) Except as otherwise provided in this contract under a Price Reduction for Defective Cost or Pricing Data clause or a Cost Accounting Standards clause, all amounts that become payable by the Contractor to the Government under this contract (net of any applicable tax credit under the Internal Revenue Code (26 U.S.C. 1481)) shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in Section 12 of the Contract Disputes Act of 1978 (Public Law 95-563), which is applicable to the period in which the amount becomes due, as provided in paragraph (b) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid. reproduce, prepare derivative works, distribute copies to the public, and (b) Amounts shall be due at the earliest of the following dates:

(1) The date fixed under this contract.

(2) The date of the first written demand for payment consistent with this contract, including any demand resulting from a default termination.

(3) The date the Government transmits to the Contractor a proposed supplemental agreement to confirm completed negotiations establishing the amount of debt.

(4) If this contract provides for revision of prices, the date of written notice to the Contractor stating the amount of refund payable in connection with a pricing proposal or a negotiated pricing agreement not confirmed by contract modification.

(c) The interest charge made under this clause may be reduced under the procedures prescribed in 32.614-2 of the Federal Acquisition Regulation in effect on the date of this contract.

(End of clause)

~~52.232-18 AVAILABILITY OF FUNDS (APR 1984)~~

~~Funds are not presently available for this contract. The Government's obligation under this contract is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this contract and until the Contractor receives notice of such availability, to be confirmed in~~

~~writing by the Contracting Officer.~~

~~(End of clause)~~

52.232-23 ASSIGNMENT OF CLAIMS (JAN 1986) - ALTERNATE I (APR 1984)

(a) The Contractor, under the Assignment of Claims Act, as amended, 31 U.S.C. 3727, 41 U.S.C. 15 (hereafter referred to as "the Act"), may assign its rights to be paid amounts due or to become due as a result of the performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency. The assignee under such an assignment may thereafter further assign or reassign its right under the original assignment to any type of financing institution described in the preceding sentence. Unless otherwise stated in this contract, payments to an assignee of any amounts due or to become due under this contract shall not, to the extent specified in the Act, be subject to reduction or setoff.

(b) Any assignment or reassignment authorized under the Act and this clause shall cover all unpaid amounts payable under this contract, and shall not be made to more than one party, except that an assignment or reassignment may be made to one party as agent or trustee for two or more parties participating in the financing of this contract.

(c) The Contractor shall not furnish or disclose to any assignee under this contract any classified document (including this contract) or information related to work under this contract until the Contracting Officer authorizes such action in writing.

(End of clause)

52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (FEB 2002)

Notwithstanding any other payment terms in this contract, the Government will make invoice payments under the terms and conditions specified in this clause. The Government considers payment as being made on the day a check is dated or the date of an electronic funds transfer. Definitions of pertinent terms are set forth in sections 2.101, 32.001, and 32.902 of the Federal Acquisition Regulation. All days referred to in this clause are calendar days, unless otherwise specified. (However, see paragraph (a)(3) concerning payments due on Saturdays, Sundays, and legal holidays.)

(a) Invoice payments--(1) Types of invoice payments. For purposes of this clause, there are several types of invoice payments that may occur under this contract, as follows:

(i) Progress payments, if provided for elsewhere in this contract, based on Contracting Officer approval of the estimated amount and value of work or services performed, including payments for reaching milestones in any project.

(A) The due date for making such payments is 14 days after the designated billing office receives a proper payment request. If the designated billing office fails to annotate the payment request with the actual date of receipt at the time of receipt, the payment due date is the 14th day after the date of the Contractor's payment request, provided the designated billing office

any stop work order issued under this clause.

(e) The Contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.

(f) Before commencing the work, the Contractor shall-

(1) Submit a written proposed plan for implementing this clause. The plan shall include an analysis of the significant hazards to life, limb, and property inherent in contract work performance and a plan for controlling these hazards; and

(2) Meet with representatives of the Contracting Officer to discuss and develop a mutual understanding relative to administration of the overall safety program.

(End of clause)

~~52.236-14~~ ~~AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)~~

~~(a) The Government shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.~~

~~(b) The Contractor, at its expense and in a workmanlike manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.~~

~~(End of clause)~~

52.236-16 QUANTITY SURVEYS (APR 1984) - ALTERNATE I (APR 1984)

(a) Quantity surveys shall be conducted, and the data derived from these surveys shall be used in computing the quantities of work performed and the actual construction completed and in place.

(b) The Contractor shall conduct the original and final surveys and surveys for which progress payments are requested. All these surveys shall be conducted under the direction of a representative of the Contracting Officer, unless the Contracting Officer waives this requirement in a specific instance. The Government shall make such computations as are necessary to determine the quantities of work performed or finally in place. The Contractor shall make the computations based on the surveys for any periods for which progress payments are requested.

(c) Promptly upon completing a survey, the Contractor shall furnish the originals of all field notes and all other records relating to the survey or to the layout of the work to the Contracting Officer, who shall use them as

(2) Has no obligation to restore or rehabilitate the Contractor's premises under any circumstances (e.g., abandonment, disposition upon completion of need, or upon contract completion). However, if the Government-furnished property (listed in the Schedule or specifications) is withdrawn or is unsuitable for the intended use, or if other Government property is substituted, then the equitable adjustment under paragraph (h) of this clause may properly include restoration or rehabilitation costs.

(k) Communications. All communications under this clause shall be in writing.

(l) Overseas contracts. If this contract is to be performed outside of the United States of America, its territories, or possessions, the words "Government" and "Government-furnished" (wherever they appear in this clause) shall be construed as "United States Government" and "United States Government-furnished," respectively.

(End of clause)

52.245-3 IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY (APR 1984)

(a) The Government will furnish to the Contractor the property identified in the Schedule to be incorporated or installed into the work or used in performing the contract. The listed property will be furnished f.o.b. railroad cars at the place specified in the contract Schedule or f.o.b. truck at the project site. The Contractor is required to accept delivery, pay any demurrage or detention charges, and unload and transport the property to the job site at its own expense. When the property is delivered, the Contractor shall verify its quantity and condition and acknowledge receipt in writing to the Contracting Officer. The Contractor shall also report in writing to the Contracting Officer within 24 hours of delivery any damage to or shortage of the property as received. All such property shall be installed or incorporated into the work at the expense of the Contractor, unless otherwise indicated in this contract.

(b) Each item of property to be furnished under this clause shall be identified in the Schedule by quantity, item, and description.

<u>ITEM DESCRIPTION</u>	<u>VALUE OF ITEM</u>
80 - Trees 24" Box	\$18,040
29,874 - Shrubs & Groundcover (1 gal)	\$177,434

(End of clause)

52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)

(a) Definition. "Work" includes, but is not limited to, materials, workmanship, and manufacture and fabrication of components.

(b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Government. All work shall be conducted under the general direction of the Contracting Officer and is subject to Government inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.

(c) Government inspections and tests are for the sole benefit of the Government and do not--

(i) Data. The Contractor may restrict the Government's right to use any part of a VECP or the supporting data by marking the following legend on the affected parts:

"These data, furnished under the Value Engineering-- Construction clause of contract , shall not be disclosed outside the Government or duplicated, used, or disclosed, in whole or in part, for any purpose other than to evaluate a value engineering change proposal submitted under the clause. This restriction does not limit the Government's right to use information contained in these data if it has been obtained or is otherwise available from the Contractor or from another source without limitations." If a VECP is accepted, the Contractor hereby grants the Government unlimited rights in the VECP and supporting data, except that, with respect to data qualifying and submitted as limited rights technical data, the Government shall have the rights specified in the contract modification implementing the VECP and shall appropriately mark the data. (The terms "unlimited rights" and "limited rights" are defined in Part 27 of the Federal Acquisition Regulation.)

(End of clause)

~~52.249-1 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE)
(SHORT FORM) (APR 1984)~~

~~The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the Government's interest. If this contract is terminated, the rights, duties, and obligations of the parties, including compensation to the Contractor, shall be in accordance with Part 49 of the Federal Acquisition Regulation in effect on the date of this contract.~~

~~(End of clause)~~

52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (SEP 1996) - ALTERNATE I (SEP 1996)

(a) The Government may terminate performance of work under this contract in whole or, from time to time, in part if the Contracting Officer determines that a termination is in the Government's interest. The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying the extent of termination and the effective date.

(b) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:

(1) Stop work as specified in the notice.

(2) Place no further subcontracts or orders (referred to as subcontracts in this clause) for materials, services, or facilities, except as necessary to complete the continued portion of the contract.

(3) Terminate all subcontracts to the extent they relate to the work terminated.

The Contractor will include the clause at FAR 52.227-12, Patent Rights - Retention by the Contractor (Long Form), suitably modified to identify the parties, in all subcontracts, regardless of tier, for experimental, developmental, or research work to be performed by other than a small business firm or nonprofit organization.

(End of clause)

~~252.227-7039 PATENTS--REPORTING OF SUBJECT INVENTIONS (APR. 1990)~~

~~The Contractor shall furnish the Contracting Officer the following:~~

~~(a) Interim reports every twelve (12) months (or such longer period as may be specified by the Contracting Officer) from the date of the contract, listing subject inventions during that period and stating that all subject inventions have been disclosed or that there are no such inventions.~~

~~(b) A final report, within three (3) months after completion of the contracted work, listing all subject inventions or stating that there were no such inventions.~~

~~(c) Upon request, the filing date, serial number and title, a copy of the patent application and patent number, and issue data for any subject invention for which the Contractor has retained title.~~

~~(d) Upon request, the Contractor shall furnish the Government an irrevocable power to inspect and make copies of the patent application file.~~

~~(End of clause)~~

252.231-7000 SUPPLEMENTAL COST PRINCIPLES (DEC 1991)

When the allowability of costs under this contract is determined in accordance with part 31 of the Federal Acquisition Regulation (FAR), allowability shall also be determined in accordance with part 231 of the Defense FAR Supplement, in effect on the date of this contract.

(End of clause)

252.236-7000 MODIFICATION PROPOSALS - PRICE BREAKDOWN. (DEC 1991)

(a) The Contractor shall furnish a price breakdown, itemized as required and within the time specified by the Contracting Officer, with any proposal for a contract modification.

(b) The price breakdown --

(1) Must include sufficient detail to permit an analysis of profit, and of all costs for --

(i) Material;

(ii) Labor;

(iii) Equipment;

(iv) Subcontracts; and

(v) Overhead; and

(2) Must cover all work involved in the modification, whether the work was deleted, added, or changed.

(c) The Contractor shall provide similar price breakdowns to support any amounts claimed for subcontracts.

(d) The Contractor's proposal shall include a justification for any time extension proposed.

252.236-7001 CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS (AUG 2000)

(a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall--

(1) Check all drawings furnished immediately upon receipt;

(2) Compare all drawings and verify the figures before laying out the work;

(3) Promptly notify the Contracting Officer of any discrepancies;

(4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and

(5) Reproduce and print contract drawings and specifications as needed.

(c) In general--

(1) Large-scale drawings shall govern small-scale drawings; and

(2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings

identified in attachment 5 for Drawing File No. GR-04-16.

252.236-7002 OBSTRUCTION OF NAVIGABLE WATERWAYS. (DEC 1991)

(a) The Contractor shall --

(1) Promptly recover and remove any material, plant, machinery, or appliance

there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) The Contractor shall include this clause, including this paragraph (h), in all subcontractors under this contract that--

(1) Exceed the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation; and

(2) Are for a type of supplies described in paragraph (b)(3) of this clause.

(End of clause)

252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA (MAR 2000)

(a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If, however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor --

(1) Shall notify the Contracting Officer of that fact; and

(2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.

(b) The Contractor shall include this clause; including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties--

(1) In all subcontracts under this contract, if this contract is a construction contract; or

(2) If this contract is not a construction contract, in all subcontracts under this contract that are for--

(i) Noncommercial items; or

(ii) Commercial items that--

(A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(End of clause)

52.203-6 RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (JUL 1995)

(a) Except as provided in (b) of this clause, the Contractor shall not enter

into any agreement with an actual or prospective subcontractor, nor otherwise act in any manner, which has or may have the effect of restricting sales by such subcontractors directly to the Government of any item or process (including computer software) made or furnished by the subcontractor under this contract or under any follow-on production contract.

(b) The prohibition in (a) of this clause does not preclude the Contractor from asserting rights that are otherwise authorized by law or regulation.

(c) The Contractor agrees to incorporate the substance of this clause, including this paragraph (c), in all subcontracts under this contract which exceed \$100,000.

(End of clause)

52.204-2 SECURITY REQUIREMENTS (AUG 1996) - ALTERNATE II (APR 1984)

(a) This clause applies to the extent that this contract involves access to information classified "Confidential," "Secret," or "Top Secret."

(b) The Contractor shall comply with (1) the Security Agreement (DD Form 441), including the National Industrial Security Program Operating Manual (DOD 5220.22-M); and (2) any revisions to that manual, notice of which has been furnished to the Contractor.

(c) If, subsequent to the date of this contract, the security classification or security requirements under this contract are changed by the Government and if the changes cause an increase or decrease in security costs or otherwise affect any other term or condition of this contract, the contract shall be subject to an equitable adjustment as if the changes were directed under the Changes clause of this contract.

(d) The Contractor agrees to insert terms that conform substantially to the language of this clause, including this paragraph (d) but excluding any reference to the Changes clause of this contract, in all subcontracts under this contract that involve access to classified information.

(e) The Contractor shall be responsible for furnishing to each employee and for requiring each employee engaged on the work to display such identification as may be approved and directed by the Contracting Officer. All prescribed identification shall immediately be delivered to the Contracting Officer, for cancellation upon the release of any employee. When required by the Contracting Officer, the Contractor shall obtain and submit fingerprints of all persons employed or to be employed on the project.

(End of clause)

52.227-2 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (AUG 1996)

(a) The Contractor shall report to the Contracting Officer, promptly and in reasonable written detail, each notice or claim of patent or copyright infringement based on the performance of this contract of which the Contractor has knowledge.

(b) In the event of any claim or suit against the Government on account of

any alleged patent or copyright infringement arising out of the performance of this contract or out of the use of any supplies furnished or work or services performed under this contract, the Contractor shall furnish to the Government, when requested by the Contracting Officer, all evidence and information in possession of the Contractor pertaining to such suit or claim. Such evidence and information shall be furnished at the expense of the Government except where the Contractor has agreed to indemnify the Government.

(c) The Contractor agrees to include, and require inclusion of, this clause in all subcontracts at any tier for supplies or services (including construction and architect-engineer subcontracts and those for material, supplies, models, samples, or design or testing services) expected to exceed the simplified acquisition threshold at (FAR) 2.101 to exceed the dollar amount set forth in 13.000 of the Federal Acquisition Regulation (FAR).

(End of clause)

52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)

(a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Contracting Officer, prepare and submit to the Contracting Officer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient features of the work (including acquiring materials, plant, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule.

(b) The Contractor shall enter the actual progress on the chart as directed by the Contracting Officer, and upon doing so shall immediately deliver three copies of the annotated schedule to the Contracting Officer. If, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.

(c) Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of this contract.

(End of clause)

252.204-7005 ORAL ATTESTATION OF SECURITY RESPONSIBILITIES (NOV 2001)

(a) Contractor employees cleared for access to Top Secret (TS), Special Access Program (SAP), or Sensitive Compartmented Information (SCI) shall attest orally that they will conform to the conditions and responsibilities imposed by law or regulation on those granted access. Reading aloud the first paragraph of Standard Form 312, Classified Information Nondisclosure Agreement, in the presence of a person designated by the Contractor for this purpose, and a witness, will satisfy this requirement. Contractor employees currently cleared for access to TS, SAP, or SCI may attest orally to their security responsibilities when being briefed into a new program or during their annual refresher briefing. There is no requirement to retain a separate record of the oral attestation.

(b) If an employee refuses to attest orally to security responsibilities, the Contractor shall deny the employee access to classified information and shall submit a report to the Contractor's security activity.

(End of clause)

252.219-7003 SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) (APR. 1996)

This clause supplements the Federal Acquisition Regulation 52.219-9, Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan, clause of this contract.

(a) Definitions. Historically black colleges and universities, as used in this clause, means institutions determined by the Secretary of Education to meet the requirements of 34 CFR 608.2. The term also means any nonprofit research institution that was an integral part of such a college or university before November 14, 1986.

Minority institutions, as used in this clause, means institutions meeting the requirements of section 1046(3) of the Higher Education Act of 1965 (20 U.S.C. 1135d-5(3)). The term also includes Hispanic-serving institutions as defined in section 316(b)(1) of such Act (20 U.S.C. 1059c(b)(1)).

(b) Except for company or division-wide commercial items subcontracting plans, the term small disadvantaged business, when used in the FAR 52.219-9 clause, includes historically black colleges and universities and minority institutions, in addition to small disadvantaged business concerns.

(c) Work under the contract or its subcontracts shall be credited toward meeting the small disadvantaged business concern goal required by paragraph (d) of the FAR 52.219-9 clause when:

(1) It is performed on Indian lands or in joint venture with an Indian tribe or a tribally-owned corporation, and

(2) It meets the requirements of 10 U.S.C. 2323a.

(d) Subcontracts awarded to workshops approved by the Committee for Purchase from People Who are Blind or Severely Disabled (41 U.S.C. 46-48), may be counted toward the Contractor's small business subcontracting goal.

(e) A mentor firm, under the Pilot Mentor-Protege Program established under Section 831 of Pub. L. 101-510, as amended, may count toward its small disadvantaged business goal, subcontracts awarded--

(f) The master plan approval referred to in paragraph (f) of the FAR 52.219-9 clause is approval by the Contractor's cognizant contract administration activity.

(g) In those subcontracting plans which specifically identify small, small disadvantaged, and women-owned small businesses, the Contractor shall notify the Administrative Contracting Officer of any substitutions of firms that are not small, small disadvantaged, or women-owned small businesses for the firms listed in the subcontracting plan. Notifications shall be in writing and shall occur within a reasonable period of time after award of the subcontract. Contractor-specified formats shall be acceptable.

(End of clause)

General Decision Number CA020029
 Superseded General Decision No. CA010029
 State: California Construction Type:

BUILDING

DREDGING

HEAVY

HIGHWAY

County(ies):

ALAMEDA	MARIPOSA	SAN MATEO
CALAVERAS	MERCED	SANTA CLARA
CONTRA COSTA	MONTEREY	SANTA CRUZ
FRESNO	SAN BENITO	STANISLAUS
KINGS	SAN FRANCISCO	TUOLUMNE
MADERA	SAN JOAQUIN	

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
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0	03/01/2002
1	03/08/2002
2	03/22/2002
3	03/29/2002
4	04/12/2002
5	04/19/2002
6	05/10/2002
7	05/17/2002
8	05/31/2002
9	06/07/2002

COUNTY(ies):

ALAMEDA	MARIPOSA	SAN MATEO
CALAVERAS	MERCED	SANTA CLARA CONTRA COSTA
MONTEREY	SANTA CRUZ	
FRESNO	SAN BENITO	STANISLAUS
KINGS	SAN FRANCISCO	TUOLUMNE
MADERA	SAN JOAQUIN	

ASBE0016A 01/01/2002

Rates

Fringes

Includes the application
 of all insulating materials,
 protective coverings,
 coatings, and finishings
 to all types of mechanical
 systems

INSULATOR/ASBESTOS WORKER	37.53	9.01
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 ASBE0016E 01/01/2002

Rates

Fringes

ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:

Includes preparation, wetting,
 stripping, removal, scrapping,
 vacuuming, bagging and disposing
 of all insulation materials from
 mechanical systems, whether they
 contain asbestos or not

HAZARDOUS MATERIAL HANDLER	22.81	2.35
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CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY,
 SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE

COUNTIES

Includes preparation, wetting,
stripping, removal, scrapping,
vacuuming, bagging and disposing
of all insulation materials from
mechanical systems, whether they
contain asbestos or not

HAZARDOUS MATERIAL HANDLER	13.32	1.90
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ASBE0016F 05/01/1999

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE		

COUNTIES:

Includes preparation, wetting,
stripping, removal, scrapping,
vacuuming, bagging and disposing
of all insulation materials from
mechanical systems, whether they
contain asbestos or not

HAZARDOUS MATERIAL HANDLER	22.01	4.28
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BOIL0549B 10/01/2001

	Rates	Fringes
BOILERMAKER	31.51	11.95

BRCA0003B 08/01/2001

	Rates	Fringes
MARBLE FINISHER	24.12	5.87

BRCA0003D 08/01/2001

	Rates	Fringes
MARBLE MASON	33.84	10.91

BRCA0003G 07/01/2001

	Rates	Fringes
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SAN FRANCISCO AND SAN MATEO COUNTIES:

BRICKLAYER	31.80	10.50
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ALAMEDA, CONTRA COSTA, SAN BENITO AND SANTA CLARA COUNTIES

BRICKLAYERS	30.52	9.63
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CALAVERAS, SAN JOAQUIN, STANISLAUS AND

TOULUMNE COUNTIES

BRICKLAYERS	26.65	8.25
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MONTEREY AND SAN CRUZ COUNTIES

BRICKLAYERS	28.48	10.00
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FRESNO, KINGS, MADERA, MARIPOSA

AND MERCED COUNTIES	24.70	8.80
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FOOTNOTES: Operating a saw or grinder: \$0.50 per hour additional.

Gunite nozzle person: \$1.00 per hour additional.

BRCA0003P 07/01/2001

	Rates	Fringes
TERRAZZO WORKER	33.80	10.15
TERRAZZO FINISHER	18.06	6.57

BRCA0003T 04/01/2002

	Rates	Fringes
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ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN
FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:

TILE LAYER	34.13	7.20
TILE FINISHER	17.16	5.97

CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES

TILE LAYER	28.43	7.15
TILER FINISHER	18.66	5.97

FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES

TILE LAYER	26.27	5.65
TILE FINISHER	18.55	4.77

CARP0003A 08/01/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES		

DRYWALL INSTALLER/LATHER	29.00	11.885
DRYWALL STOCKER/SCRAPPER	14.50	6.515

MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES

New Projects valued over
\$25 Million dollars

DRYWALL INSTALLER/LATHER	29.00	11.885
DRYWALL STOCKER/SCRAPPER	14.50	6.515

New Project valued \$25 Million
and under

DRYWALL INSTALLER/LATHER	24.37	11.885
DRYWALL STOCKER/SCRAPPER	12.19	6.515

New Projects valued over
\$25 Million dollars

DRYWALL INSTALLER/LATHER	29.00	11.885
DRYWALL STOCKER/SCRAPPER	14.50	6.515

REMAINDER OF COUNTIES:

DRYWALL INSTALLER/LATHER	23.52	11.885
DRYWALL STOCKER/SCRAPPER	11.76	6.515

CARP0034A 07/01/2001

	Rates	Fringes
DIVERS:		

Diver standby	31.52	13.945
Diver wet pay	42.77	13.945
Tender	31.52	13.945
Saturation diver	46.50	13.945

DEPTH PAY (Surface Diving):

50 to 100 ft	\$1.32/ft
100 to 150 ft	\$66.00 + \$1.85/ft
150 to 200 ft	\$158.00 + \$2.65/ft
200 ft and over	\$291.00 + \$3.00/ft

CARP0034C 07/01/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES:		

PILEDRIIVER	28.65	13.985
*PILEDRIIVER - BRIDGE BUILDER	29.00	11.445

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN,
STANISLAUS, AND TUOLUMNE COUNTIES:

PILEDRIIVER	28.65	13.985
*PILEDRIIVER - BRIDGE BUILDER	26.68	11.445

MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES:

PILEDRIIVER	28.65	13.985
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*PILEDRIIVER - BRIDGE BUILDER	27.24	11.445
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*FOOTNOTE: Effective 7/1/2001 new projects public or private, vaulted at twenty five million dollars or more shall be paid at the Alameda, Contra Costa, San Francisco, San Mateo, and Santa Clara counties rate.

*PILEDRIIVER BRIDGE BUILDERS	29.00	11.485
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 CARP0035A 07/01/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES:		
CARPENTER	29.00	11.445
HARDWOOD FLOORLAYER; SHINGLER;		
POWER SAW OPERATOR; STEEL		
SCAFFOLD AND STEEL SHORING		
ERECTOR; SAW FILER	29.15	11.445
BRIDGE BUILDERS	29.00	11.445
MILLWRIGHT	29.10	12.785
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS, AND TUOLUMNE COUNTIES:		
CARPENTER	23.02	11.445
HARDWOOD FLOORLAYER; SHINGLER;		
POWER SAW OPERATOR; STEEL		
SCAFFOLD AND STEEL SHORING		
ERECTOR; SAW FILER	23.17	11.445
BRIDGE BUILDERS	25.52	11.445
MILLWRIGHT	24.77	12.785
MONTEREY, SAN BENITO, AND SANTA CRUZ COUNTIES:		
CARPENTER	24.37	11.445
HARDWOOD FLOORLAYER; SHINGLER;		
POWER SAW OPERATOR; STEEL		
SCAFFOLD AND STEEL SHORING		
ERECTOR; SAW FILER	24.52	11.445
BRIDGE BUILDERS	27.24	11.445
MILLWRIGHT	26.12	12.785

FOOTNOTE: Effective 7/1/2001 new projects public or private, valued at twenty-five million dollars or more shall be paid at the Alameda, Contra Costa, San Francisco, San Mato, and Santa Clara counties rate.

 CARP0035H 07/01/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, SANTA CLARA COUNTIES		
MODULAR FURNITURE INSTALLER	18.22	5.355
MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES		
MODULAR FURNITURE INSTALLER	15.67	5.355
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS, TUOLUMNE COUNTIES		
MODULAR FURNITURE INSTALLER	14.76	5.355

 ELEC0006A 12/01/2000

	Rates	Fringes
ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA, AND SANTA CRUZ COUNTIES:		
COMMUNICATIONS AND SYSTEMS WORK:		
Communications and Systems		
Installer	23.32	3%+4.10

Communications and Systems Technician	26.55	3%+4.10
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SCOPE OF WORK:

Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs for which the conductors for the fire alarm system are installed in conduit; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excluding energy management systems.

FOOTNOTE:

Fire alarm work when installed in raceways (including wire and cable pulling), on projects which involve new or major remodel building construction, for which the conductors for the fire alarm system are installed in the conduit, shall be performed by the inside electrician.

ELEC0006H 06/01/2001		
	Rates	Fringes
SAN FRANCISCO COUNTY:		
ELECTRICIAN	42.93	13.195

ELEC0006K 12/01/1999		
	Rates	Fringes
CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
COMMUNICATIONS AND SYSTEMS WORK:		
Communications and Systems Installer	18.72	3%+4.10
Communications and Systems Technician	21.31	3%+4.10

SCOPE OF WORK:

Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs for which the conductors for the fire alarm system are installed in conduit; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excluding energy management systems.

FOOTNOTE: Fire alarm work when installed in raceways (including wire and cable pulling), on projects which involve new or major remodel building construction, for which the conductors for the fire alarm system are installed in the conduit, shall be performed by the inside electrician.

* ELEC0100C 06/01/2002

	Rates	Fringes
FRESNO, KINGS, AND MADERA COUNTIES:		
ELECTRICIAN	27.10	3%+8.81

ELEC0100F 01/07/2002

	Rates	Fringes
FRESNO, KINGS, MADERA AND TULARE COUNTIES:		
COMMUNICATIONS AND SYSTEMS		
INSTALLER	21.47	3%+5.40

SCOPE OF WORK

Includes the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS

- Background foreground music
- Intercom and telephone interconnect systems
- Telephone systems
- Nurse call systems
- Radio page systems
- School intercom and sound systems
- Burglar alarm systems
- Low voltage master clock systems
- Multi-media/multiplex systems
- Sound and musical entertainment systems
- RF systems
- Antennas and Wave Guide

B. FIRE ALARM SYSTEMS

- Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS

- Television monitoring and surveillance systems
- Video security systems
- Video entertainment systems
- Video educational systems
- Microwave transmission systems
- CATV and CCTV

D. SECURITY SYSTEMS

- Perimeter security systems
- Vibration sensor systems
- Card access systems
- Access control systems
- Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS

- SCADA (Supervisory Control and Data Acquisition)
- PCM (Pulse Code Modulation)
- Inventory Control Systems
- Digital Data Systems
- Broadband and Baseband and Carriers
- Point of Sale Systems

VSAT Data Systems
 Data Communication Systems
 RF and Remote Control Systems
 Fiber Optic Data Systems

WORK EXCLUDED

Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems.

Energy management systems.

SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope).

Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply:

1. The project involves new or major remodel building trades construction.
2. The conductors for the fire alarm system are installed in conduit.

 ELEC0234A 12/24/2001

	Rates	Fringes
MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES:		
ELECTRICIANS	32.06	3% + 11.59

ELEC0302A 06/01/2001

	Rates	Fringes
CONTRA COSTA COUNTY:		
ELECTRICIANS	35.01	3%+8.90
CABLE SPLICER	38.51	3%+8.90

* ELEC0332A 06/01/2002

	Rates	Fringes
SANTA CLARA COUNTY:		
ELECTRICIAN	42.57	3%+11.27
CABLE SPLICER	48.96	3%+11.27

FOOTNOTES:

Work under compressed air or where gas masks are required, or work on ladders, scaffolds, stacks, "Bosun's chairs," or other structures and where the workers are not protected by permanent guard rails at a distance of 40 to 60 ft. from the ground or supporting structures: to be paid one and one-half times the straight-time rate of pay.

Work on structures of 60 ft. or over (as described above): to be paid twice the straight-time rate of pay.

* ELEC0595A 06/01/2002

	Rates	Fringes
ALAMEDA COUNTY:		
Electricians	37.00	3%+14.35
Cable Splicers	41.63	3%+14.35

* ELEC0595B 06/01/2002

	Rates	Fringes
CALAVERAS AND SAN JOAQUIN COUNTIES:		
TUNNEL WORK:		
Electrician	28.32	7.5%+11.96
Cable splicer	31.84	7.5%+11.96

ALL OTHER WORK:

Electrician	28.19	7.5%+11.96
Cable splicer	31.71	7.5%+11.96

* ELEC0617A 06/01/2002

	Rates	Fringes
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SAN MATEO COUNTY:

ELECTRICIAN	42.30	3%+10.60
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ELEC0684A 07/01/2001

	Rates	Fringes
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MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:

Electrician	28.02	7%+9.05
Cable splicer	30.82	7%+9.05

* ELEC1245A 06/01/2002

	Rates	Fringes
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LINE CONSTRUCTION

Lineman; Cable splicer	33.16	4.5%+7.08
Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), and overhead and underground distribution line equipment)	28.19	4.5%+6.80
Groundman	21.56	4.5%+6.80
Powderman	31.51	4.5%+6.84

ELEV0008A 08/01/2001

	Rates	Fringes
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ELEVATOR MECHANIC

	42.735	7.455
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FOOTNOTE:

Vacation Pay: 8% with 5 or more years of service, 6% for 6 months to 5 years service. Paid Holidays: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Friday after, and Christmas Day.

ENGI0001A 05/01/1999

	Rates	Fringes
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POWER EQUIPMENT OPERATORS

CRANES AND ATTACHMENTS

DREDGING

TUNNEL AND UNDERGROUND

These areas do not apply to piledrivers and steel erectors.

AREA 1: ALAMEDA, CONTRA COSTA, KINGS, MERCED, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ AND STANISLAUS COUNTIES

The remaining counties are split between Area 1 and Area 2 as noted below:

CALAVERAS COUNTY:

AREA 1: Area within the line beginning at the southernmost point of Calaveras County,

Thence northerly along the southeasterly county line to the intersection with the easterly line of Range 15 East,

Thence northerly to the northeast corner of Township 5N, Range 15E,

Thence westerly to the southeast corner of Township 6N, Range 14E,
Thence northerly along the range line to the intersection with the northerly line of said county,
Thence westerly and southerly along the county line to the point of beginning.

AREA 2: Remainder of Calaveras County.

FRESNO COUNTY:

AREA 1: Area within the line beginning at the southeast corner of Township 13S, Range 28E,
Thence northerly to the northeast corner of Township 13S, Range 28E,
Thence westerly to the southeast corner of Township 12S, Range 27E,
Thence northerly to the northeast corner of Township 12S, Range 27E,
Thence westerly to the southeast corner of Township 11S, Range 26E,
Thence northerly to the northeast corner of Township 11S, Range 26E,
Thence westerly to the southeast corner of Township 10S, Range 25E,
Thence northerly to the northeast corner of Township 9S, Range 25E,
Thence westerly to the southeast corner of Township 8S, Range 24E,
Thence northerly to the northeast corner of Township 8S, Range 24E,
Thence westerly along the north line of Township 8S to the intersection with the Fresno County line,
Thence southwesterly and northwesterly along said county line to the intersection with the southeasterly line of Merced County,
Thence southwesterly along said county line to the intersection with the easterly line of San Benito County,
Thence southerly along said county line to the intersection with the easterly line of Monterey County,
Thence southeasterly along said county line to the intersection with the northwesterly line of Kings County,
Thence northeasterly along the southeasterly line of Fresno County to the point of beginning.

AREA 2: Remainder of Fresno County.

MADERA COUNTY:

AREA 1: Area within the line beginning at the point of intersection of Fresno County, Madera County, and Merced County,
Thence southeasterly and northeasterly along the southerly line of Madera County to the intersection with the northerly line of Township 8S,
Thence westerly to the southeast corner of Township 7S, Range 23E,
Thence northerly to the northeast corner of Township 6S, Range 23E,
Thence westerly along the north line of Township 6S to the intersection of the northwesterly line of Madera County,
Thence southwesterly along said county line to the point of beginning.

AREA 2: Remainder of Madera County.

MARIPOSA COUNTY:

AREA 1: Area within the line beginning at the point of intersection of Stanislaus County with Mariposa County, Thence southeasterly along the westerly line of Mariposa County to the intersection of Madera County, Thence northeasterly along said county line to the intersection of the southerly line of Township 5S, Thence westerly to the southeast corner of Township 5S, Range 20E, Thence northerly to the northeast corner of Township 5S, Range 20E, Thence westerly to the southeast corner of Township 4S, Range 19E, Thence northerly along the range line to the intersection with the northerly line of Mariposa County, Thence westerly along said county line to the point of beginning.

AREA 2: Remainder of Mariposa County.

MONTEREY COUNTY:

AREA 1: Area within a line beginning at the intersection of the southerly line of Township 19S with the Pacific Ocean, Thence easterly along the southerly line of Township 19S to the northwest corner of Township 20S, Range 6E, Thence southerly to the southwest corner of Township 20S, range 6E, Thence easterly to the northwest corner of Township 21S, Range 7E, Thence southerly to the southwest corner of Township 21S, Range 7E, Thence easterly to the northwest corner of Township 22S, Range 9E, Thence southerly to the southwest corner of Township 22S, Range 9E, Thence easterly to the northwest corner of Township 23S, Range 10E, Thence southerly to the southwest corner of Township 24S, Range 10E, Thence easterly along the southerly line of Township 24S to the southeasterly corner of Monterey County, Thence northwesterly along said county line to the point of intersection with the southerly line of Santa Cruz County, Thence westerly along the northerly line of Monterey County to the Pacific Ocean, Thence southerly along the Pacific Ocean to the point of beginning.

AREA 2: Remainder of Monterey County.

TUOLUMNE COUNTY:

AREA 1: Area within the line beginning at the point of intersection of the easterly line of Township 2S, Range 19E, with the southerly line of Tuolumne County, Thence northerly to the northeast corner of Township 1S, Range 19E, Thence westerly to the southeast corner of Township 1N, Range 18E, Thence northerly to the northeast corner of Township 3N, Range 18E,

Thence westerly to the southeast corner of Township 4N, Range 17E,
 Thence northerly to the northeast corner of Township 4N, Range 17E,
 Thence northerly to the northeast corner of Township 4N, Range 17E,
 Thence westerly to the southeast corner of Township 5N, Range 15E,
 Thence northerly to the intersection of the county line with the easterly line of Township 5N, Range 15E,
 Thence southwesterly along the county line to the intersection of the northeasterly line of Stanislaus County,
 Thence southeasterly along said county line to the southernmost corner of Tuolumne County,
 Thence easterly along the county line to the point of beginning.
 AREA 2: Remainder of Tuolumne County.

 ENGI0003B 07/01/2001

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
DREDGING: CLAMSHELL & DIPPER DREDGING;		
HYDRAULIC SUCTION DREDGING:		
AREA 1:		
Leverman	34.39	12.37
Dredge dozer; Heavy duty repairman	29.43	12.37
Booster pump operator; Deck engineer; Deck mate; Dredge tender; Winch operator	28.31	12.37
Bargeman; Deckhand; Fireman; Leveehand; Oiler	25.01	12.37
AREA 2:		
Leverman	36.39	12.37
Dredge dozer; Heavy duty repairman	31.43	12.37
Booster pump operator; Deck engineer; Deck mate; Dredge tender; Winch operator	30.31	12.37
Bargeman; Deckhand; Fireman Leveehand; Oiler	27.01	12.37

 ENGI0004L 06/16/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, CALAVERAS, FRESNO, KINGS, MADERA, MERCED, MARIPOSA, MONTEREY, SAN FRANCISCO, SAN JOQUIN, SANTA CRUZ, SAN MATEO, SANTA CLARA, STANISLAUS AND TUOLUMNE COUNTIES:		
POWER EQUIPMENT OPERATORS:		
AREA 1:		
GROUP 1	33.42	12.97
GROUP 2	31.89	12.97
GROUP 3	30.41	12.97
GROUP 4	29.03	12.97
GROUP 5	27.76	12.97
GROUP 6	26.44	12.97

GROUP 7	25.30	12.97
GROUP 8	24.16	12.97
GROUP 8-A	21.95	12.97
AREA 2:		
GROUP 1	35.42	12.97
GROUP 2	33.89	12.97
GROUP 3	32.41	12.97
GROUP 4	31.03	12.97
GROUP 5	29.76	12.97
GROUP 6	28.44	12.97
GROUP 7	27.30	12.97
GROUP 8	26.16	12.97
GROUP 8-A	23.95	12.97
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
AREA 1:		
GROUP 1	34.30	12.97
Truck crane oiler	27.33	12.97
Oiler	25.04	12.97
GROUP 2	32.54	12.97
Truck crane oiler	27.07	12.97
Oiler	24.83	12.97
GROUP 3	30.80	12.97
Truck crane oiler	26.83	12.97
Hydraulic	26.44	12.97
Oiler	24.55	12.97
AREA 2:		
GROUP 1	36.30	12.97
Truck crane oiler	29.33	12.97
Oiler	27.04	12.97
GROUP 2	34.54	12.97
Truck crane oiler	29.07	12.97
Oiler	26.83	12.97
GROUP 3	32.80	12.97
Truck crane oiler	28.83	12.97
Hydraulic	28.44	12.97
Oiler	26.55	12.97
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	34.64	12.97
Truck crane oiler	27.66	12.97
Oiler	25.11	12.97
GROUP 2	32.82	12.97
Truck crane oiler	27.41	12.97
Oiler	25.11	12.97
GROUP 3	31.14	12.97
Truck crane oiler	27.12	12.97
Oiler	24.89	12.97
GROUP 4	29.37	12.97
GROUP 5	26.73	12.97
GROUP 6	24.50	12.97
POWER EQUIPMENT OPERATORS - STEEL ERECTION:		
GROUP 1	35.27	12.97
Truck crane oiler	27.95	12.97
Oiler	25.72	12.97
GROUP 2	33.50	12.97
Truck crane oiler	27.73	12.97
Oiler	25.45	12.97
GROUP 3	32.02	12.97

Truck crane oiler	27.46	12.97
Hydraulic	27.07	12.97
Oiler	25.23	12.97
GROUP 4	30.00	12.97
GROUP 5	28.70	12.97

POWER EQUIPMENT OPERATORS TUNNEL AND UNDERGROUND WORK:

AREA 1:

UNDERGROUND:

GROUP 1-A	31.89	12.97
GROUP 1	29.42	12.97
GROUP 2	28.16	12.97
GROUP 3	26.83	12.97
GROUP 4	25.69	12.97
GROUP 5	24.55	12.97

SHAFTS, STOPES AND RAISES:

GROUP 1-A	31.99	12.97
GROUP 1	29.52	12.97
GROUP 2	28.26	12.97
GROUP 3	26.93	12.97
GROUP 4	25.79	12.97
GROUP 5	24.65	12.97

AREA 2:

UNDERGROUND:

GROUP 1-A	33.89	12.97
GROUP 1	31.42	12.97
GROUP 2	30.16	12.97
GROUP 3	28.83	12.97
GROUP 4	27.69	12.97
GROUP 5	26.55	12.97

SHAFTS, STOPES AND RAISES:

GROUP 1-A	33.99	12.97
GROUP 1	31.52	12.97
GROUP 2	30.26	12.97
GROUP 3	28.93	12.97
GROUP 4	27.79	12.97
GROUP 5	26.65	12.97

FOOTNOTE: Work suspended by ropes or cables, or work on a Yo-Yo Cat: \$.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.;

Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt; Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without

compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing machine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signaller; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Guniting/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot fire tender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Mobile self-erecting tower crane (Potain) over three (3) stories

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

GROUP 3A: Mobile self-erecting tower crane (Potain) three (3) stories or under

POWER EQUIPMENT OPERATORS - PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer;

Forklift, 10 tons and over; Heavy-duty repairperson/welder
 GROUP 5: Deck engineer
 GROUP 6: Deckhand; Fire tender
 POWER EQUIPMENT OPERATORS - STEEL ERECTORS
 GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons
 GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane
 GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under
 GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder
 GROUP 5: Boom cat
 POWER EQUIPMENT OPERATORS: TUNNEL AND UNDERGROUND WORK
 GROUP 1-A: Tunnel bore machine operator, 20' diameter or more
 GROUP 1: Heading shield operator; Heavy-duty repairperson; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator
 GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator
 GROUP 3: Drill doctor; Mine or shaft hoist
 GROUP 4: Combination slurry mixer cleaner; Grouting Machine operator; Motorman
 GROUP 5: Bit Sharpener; Brakeman; Combination mixer and compressor (gunite); Compressor operator; Oiler; Pump operator; Slusher operator

 IRON0001U 07/01/2001

	Rates	Fringes
ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
IRONWORKERS:		

Fence erector	25.19	14.575
Ornamental, reinforcing and structural	26.08	14.575

 IRON0001V 07/01/2001

	Rates	Fringes
MONTEREY COUNTY:		
IRONWORKERS:		
Fence erector	25.19	14.575
Ornamental, reinforcing and structural	26.08	14.575

FOOTNOTE:

Work at the Army Defense Language Institute, and the Naval Post Graduate School: \$2.00 per hour additional.

 LABO0036A 07/01/2001

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		
BRICK TENDER	23.32	9.61

FOOTNOTES: Underground work such as sewers, manholes, catch basins, sewer pipes, telephone conduits, tunnels and cut trenches: \$5.00 per day additional.

Work in live sewage: \$2.50 per day additional.

LABO0036B 07/01/2001

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		
PLASTERER TENDER	23.32	9.69

FOOTNOTES: Work on a suspended scaffold: \$5.00 per day additional. Work operating a plaster mixer pump gun: \$1.00 per hour additional.

LABO0067B 12/01/2001

	Rates	Fringes
ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN MATEO, SANTA CLARA, SAN FRANCISCO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:		
ASBESTOS REMOVAL LABORER	10.30	2.11

SCOPE OF WORK:
Covers site mobilization; initial site clean-up; site preparation; removal of asbestos-containing materials from walls and ceilings; or from pipes, boilers and mechanical systems only if they are being scrapped; encapsulation, enclosure and disposal of asbestos-containing materials by hand or with equipment or machinery; scaffolding; fabrication of temporary wooden barriers; and assembly of decontamination stations.

LABO0067H 06/25/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
LABORERS:		
Construction specialist group	23.34	8.13
Group 1	22.64	8.13
Group 1-a	22.86	8.13
GROUP 1-b: see note below		
GROUP 1-c	22.69	8.13
GROUP 1-d: see note below		
GROUP 1-e	23.19	8.13
GROUP 1-f	21.22	8.13
GROUP 1-g (Contra Costa County)	21.36	8.13
GROUP 2	21.49	8.13
GROUP 3	21.39	8.13
GROUP 4	15.08	8.13
See groups 1-b and 1-d under laborer classifications.		
GUNITE LABORERS:		
GROUP 1	23.60	8.13
GROUP 2	23.10	8.13
GROUP 3	22.51	8.13
GROUP 4	22.39	8.13
WRECKING WORK:		
GROUP 1	22.64	8.13
GROUP 2	22.49	8.13
GROUP 3	16.08	8.13
GARDENERS, HORTICULTURAL AND LANDSCAPE LABORERS:		
New construction	22.39	8.13
Establishment warranty period	16.08	8.13
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SANTA CRUZ, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		

LABORERS:

Construction specialist group	22.34	8.13
Group 1	21.64	8.13
Group 1-a	21.86	8.13
GROUP 1-b: see note below		
GROUP 1-c	21.69	8.13
GROUP 1-d: see note below		
GROUP 1-e	22.19	8.13
GROUP 1-f	21.22	8.13
GROUP 2	21.49	8.13
GROUP 3	21.39	8.13
GROUP 4	15.08	8.13

See groups 1-b and 1-d under laborer classifications.

GUNITE LABORERS:

GROUP 1	23.60	8.13
GROUP 2	23.10	8.13
GROUP 3	22.51	8.13
GROUP 4	22.39	8.13

WRECKING WORK:

GROUP 1	22.64	8.13
GROUP 2	22.49	8.13
GROUP 3	16.08	8.13

GARDENERS, HORTICULTURAL AND LANDSCAPE LABORERS:

New construction	21.39	8.13
Establishment warranty period	15.08	8.13

FOOTNOTES: Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Masonry and plasterer tender; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and buckler; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power

tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 1-g, CONTRA COSTA COUNTY: Pipelayer (including grade checking in connection with pipelaying); Caulker; Bander; Pipewrapper; Conduit layer; Plastic pipe layer; Pressure pipe tester; No joint pipe and stripping of same, including repair of voids; Precast manhole setters, cast in place manhole form setters

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held,

pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches
 GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: All clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:

- A: at demolition site for the salvage of the material.
- B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
- C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural nozzle operator

GROUP 2: Nozzle operator (including gun, pot); Ground person

GROUP 3: Rebound

GROUP 4: Guniting laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

GROUP 3: General laborer (includes all clean-up work, loading lumber, loading and burning of debris)

 LABO0067N 06/25/2001

	Rates	Fringes
TUNNEL AND SHAFT LABORERS:		
GROUP 1	27.00	8.13
GROUP 2	26.77	8.13
GROUP 3	26.52	8.13
GROUP 4	26.25	8.13
GROUP 5	26.07	8.13
GROUP 6	25.53	8.13

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Ground person; Guniting and shotcrete nozzle operator

GROUP 2: Rod person; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powder person - heading; Cherry picker operator - where car is lifted; Concrete finisher in tunnel; Concrete screed person; Grout pump operator and pot person; Guniting & shotcrete gun person & pot person; Header person; High pressure nozzle operator; Miner - tunnel, including top and bottom person on shaft and raise work; Nipper; Nozzle operator on slick line; Sandblaster - pot person

GROUP 4: Steel form raiser and setter; Timber person, retimber person (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powder person - primer house

GROUP 5: Vibrator operator, pavement breaker; Bull gang - muckers, track person; Concrete crew - includes rodding and spreading

GROUP 6: Dump person (any method); Grout crew; Rebound person; Swamper

LABO0073C	07/01/2001	
	Rates	Fringes
CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
BRICK TENDER	23.34	5.36

LABO0073E	01/01/2001	
	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
PLASTERER TENDER	21.10	8.25

LABO0166A	07/01/1999	
	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
BRICK TENDER	20.90	10.26
FOOTNOTES:		
Work on jobs where heat-protective clothing is required: \$2.00 per hour additional.		
Work at grinders: \$.25 per hour additional.		
Manhole work: \$2.00 per day additional.		

LABO0166B	07/01/1999	
	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
PLASTERER TENDERS:		
Plasterer tender	23.25	10.16
Gun operator	24.00	10.16

LABO0185A	07/01/2001	
	Rates	Fringes
MONTEREY AND SAN BENITO COUNTIES:		
BRICK TENDER	23.24	5.36

LABO0270A	07/01/2001	
	Rates	Fringes
SANTA CLARA COUNTY:		
BRICK TENDER	24.05	6.15
FOOTNOTE: \$2.00 per hour for refractory work where heat-protective clothing is required.		
SANTA CRUZ COUNTY:		
BRICK TENDER	23.05	6.15

LABO0270E	07/01/2000	
	Rates	Fringes
SAN BENITO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
All wood framed buildings		

four (4) stories or less
and excludes steel structures,
structures with metal studs

PLASTER TENDER	22.68	6.85
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All wood framed buildings

five (5) stories or more
includes all steel structures
and all structures with metal
studs

PLASTER TENDER	24.60	6.75
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LABO0294A 07/01/2001

	Rates	Fringes
FRESNO, KINGS AND MADERA COUNTIES:		
BRICK TENDER	23.64	5.36

LABO0297A 09/01/1998

	Rates	Fringes
MONTEREY AND SAN BENITO COUNTIES:		
PLASTERER TENDER	15.95	

FOOTNOTE:

Mixer person: \$4.00 per day additional.

PAIN0012A 07/01/2001

	Rates	Fringes
ALAMEDA, CONTRA COSTA, MERCED, MARIPOSA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
SOFT FLOOR LAYER	30.00	11.25

PAIN0016A 07/01/2001

	Rates	Fringes
ALAMEDA AND CONTRA COSTA:		

PAINTERS:

Work on industrial buildings
(used for the manufacture and
processing of goods for sale or
service); Also, steel construction
(bridges), stacks, towers, tanks and
similar structures):

Brush and Roller	28.35	9.52
Working over 50 feet	30.35	9.52
100 to 180 feet	32.35	9.52
over 180 feet	34.35	9.52
Spray and Sandblast	28.85	9.52
Working over 50 feet	30.85	9.52
100 to 180 feet	32.85	9.52
over 180 feet	34.85	9.52
Application of Exotic materials	29.10	9.52
Working over 50 feet	31.10	9.52
100 to 180 feet	33.10	9.52
over 180 feet	35.10	9.52
All Other Work:		
Brush and Roller	28.10	9.52
Working over 50 feet	30.10	9.52
100 to 180 feet	32.10	9.52
over 180 feet	34.10	9.52

Application of Exotic materials	28.85	9.52
Working over 50 feet	30.85	9.52
100 to 180 feet	32.85	9.52
over 180 feet	34.85	9.52

PAIN0016C 02/01/2002		
	Rates	Fringes
CALAVERAS, MARIPOSA, MERCED, MONTEREY, SAN BENITO SAN JOAQUIN, SANTA CRUZ, STANISLAUS, TUOLUMNE COUNTIES:		
DRYWALL FINISHER/TAPER	30.28	8.78
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
DRYWALL FINISHER/TAPER	32.93	10.13

PAIN0016H 07/01/2001		
	Rates	Fringes
FRESNO, KINGS AND MADERA COUNTIES:		
DRYWALL TAPER	21.83	5.98
PAINTER	20.58	5.98
FOOTNOTES: Paperhangers, and work over 30 feet (does not include work from a lift): \$0.50 per hour additional.		
Spray painters and sandblasters: \$0.75 per hour additional.		
Lead paint abaters: \$0.75 per hour additional.		

PAIN0016K 01/01/1999		
	Rates	Fringes
FRESNO, KINGS, MADERA AND COUNTIES:		
SOFT FLOOR LAYER	18.63	4.09

PAIN0016N 07/01/2001		
	Rates	Fringes
MONTEREY, SAN BENITO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
PAINTER:	28.55	8.62

PAIN0016Q 03/01/1999		
	Rates	Fringes
CALAVERAS AND SAN JOAQUIN COUNTIES:		
PAINTERS:		
Brush	18.05	7.23
Sandblaster; Waterblaster;		
Steam cleaning	19.05	7.23
Work with coal tar and exotic materials	19.80	7.23

PAIN0016S 11/01/2001		
	Rates	Fringes
MARIPOSA, MERCED, STANISLAUS, AND TOULUMNE COUNTIES:		
PAINTER:		
Brush	20.41	7.82
Paperhanger; Spray & Sandblast	21.41	7.82
Hazardous coating, application and removal	22.16	7.82

PAIN0016Y 07/01/2001		
	Rates	Fringes

SAN FRANCISCO COUNTY:

PAINTER	29.56	8.20
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PAIN0169A 07/01/2001

	Rates	Fringes
FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:		
GLAZIER	24.75	8.52

PAIN0169E 07/01/2000

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
GLAZIER	29.35	9.91

PAIN0169I 07/01/2000

	Rates	Fringes
ALAMEDA AND CONTRA COSTA:		
SHOWER DOOR INSTALLER	23.57	4.60

PAID HOLIDAYS:

New Year's Day, President's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

PAIN0718B 07/01/2001

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		
GLAZIER	29.37	11.09

* PAIN0767A 07/01/2001

	Rates	Fringes
CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
GLAZIER	27.93	8.41

PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Fourth July, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day.

FOOTNOTE: Work thirty (30) feet or over free fall: \$0.60 per hour additional.

PAIN1176A 06/26/2000

	Rates	Fringes
PARKING LOT STRIPING/HIGHWAY MARKING:		
GROUP 1	22.84	6.91
GROUP 2	22.45	6.91
GROUP 3	19.51	6.91
GROUP 4	22.15	6.91

Service Person (maintenance and repair of equipment)

13.33	5.87
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Parking Lot, Game Court and Playground Installer

19.51	6.91
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PARKING LOT STRIPING / HIGHWAY MARKING CLASSIFICATIONS

GROUP 1: STRIPER: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape traffic stripes and markings

GROUP 2: TRAFFIC DELINEATING DEVICE APPLICATOR: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices; includes all related surface preparation (sandblasting, waterblasting, grinding) as part of the application process

GROUP 3: TRAFFIC SURFACE ABRASIVE BLASTER: Removal of traffic lines and markings; preparation of surface for coatings and traffic control devices

GROUP 4: TRAFFIC PROTECTIVE DELINEATING SYSTEMS INSTALLER: Removes, relocates, installs permanently affixed roadside and parking delineation barricades, fencing, guard rail, cable anchor, retaining walls, reference signs, and monument markers

	Rates	Fringes

PAIN1237C 06/01/2001		
CALAVERAS; SAN JOAQUIN COUNTIES; STANISLAUS AND TUOLUMNE COUNTIES:		
SOFT FLOOR LAYER	25.00	7.17

PAIN1621A 07/01/2001		
MONTEREY, SAN BENITO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
GLAZIER	30.87	9.59

* PLAS0001D 07/01/2001		
CEMENT MASON	27.18	7.58

PLAS0066B 07/01/2001		
ALAMEDA, CONTRA COSTA, SAN MATEO AND SAN FRANCISCO COUNTIES:		
PLASTERER	28.76	11.40

PLAS0300A 01/01/2002		
FRESNO, KINGS AND MADERA COUNTIES:		
PLASTERER	23.33	8.65
SAN BENITO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
PLASTERER	27.75	8.65
CALAVERAS AND SAN JOAQUIN COUNTIES:		
PLASTERER	26.17	8.65
MONTEREY COUNTY:		
PLASTERER	24.39	8.65
MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:		
PLASTERER	26.18	8.65

PLUM0036A 01/01/2002		
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
PLUMBER & STEAMFITTER	28.29	10.94

PLUM0036E 01/01/2000		
FRESNO COUNTY:		
BUILDING CONSTRUCTION ONLY		
PIPE TRADESMAN	11.50	4.70
SCOPE OF WORK		
Installation of corrugated metal piping for drainage, as well as installation of corrugated metal piping for culverts in connection with storm sewers and drains; Grouting, dry packing		

and diapering of joints, holes or chases including paving over joints, in piping; Temporary piping for dirt work for building site preparation; Operating jack hammers, pavement breakers, chipping guns, concrete saws and spades to cut holes, chases and channels for piping systems; Digging, grading, backfilling and ground preparation for all types of pipe to all points of the jobsite; Ground preparation including ground leveling, layout and planting of shrubbery, trees and ground cover, including watering, mowing, edging, pruning and fertilizing, the breaking of concrete, digging, backfilling and tamping for the preparation and completion of all work in connection with lawn sprinkler and landscaping; Loading, unloading and distributing materials at jobsite; Putting away materials in storage bins in jobsite secure storage area; Demolition of piping and fixtures for remodeling and additions; Setting up and tearing down work benches, ladders and job shacks; Clean-up and sweeping of jobsite; Pipe wrapping and waterproofing where tar or similar material is applied for protection of buried piping; Flag person

 PLUM0036I 01/01/2000

	Rates	Fringes
MERCED COUNTY:		
PIPE TRADES PERSON:		
Building construction only	11.50	4.70

SCOPE OF WORK:

Installation of corrugated metal piping for drainage, as well as installation of corrugated metal piping for culverts in connection with storm sewers and drains; Grouting, dry packing and diapering of joints, holes or chases including paving over joints, in piping; Temporary piping for dirt work for building site preparation; Operating jack hammers, pavement breakers, chipping guns, concrete saws and spades to cut holes, chases and channels for piping systems; Digging, grading, backfilling and ground preparation for all types of pipe to all points of the jobsite; Ground preparation including ground leveling, layout and planting of shrubbery, trees and ground cover, including watering, mowing, edging, pruning and fertilizing, the breaking of concrete, digging, backfilling and tamping for the preparation and completion of all work in connection with lawn sprinkler and landscaping; Loading, unloading and distributing materials at jobsite; Putting away materials in storage bins in jobsite secure storage area; Demolition of piping and fixtures for remodeling and additions; Setting up and tearing down work benches, ladders and job shacks; Clean-up and sweeping of jobsite; Pipe wrapping and waterproofing where tar or similar material is applied for protection of buried piping; Flag person

 PLUM0036U 01/01/2002

	Rates	Fringes
MONTEREY AND SANTA CRUZ COUNTIES:		
PLUMBER & STEAMFITTER	30.54	10.94

 PLUM0038A 07/01/2000

	Rates	Fringes
SAN FRANCISCO COUNTY:		
PLUMBERS:		
Work on wooden frame structures		

5 stories or less excluding
high-rise buildings and
commercial work such as
hospitals, prisons, hotels
and schools

	28.50	17.35
All other work	39.00	21.55
LANDSCAPE/IRRIGATION FITTER	27.32	10.15

PLUM0159A 07/01/2001

	Rates	Fringes
CONTRA COSTA COUNTY:		
Construction of motels under 4 stories		
PLUMBERS & STEAMFITTERS	26.61	9.39
All other work		
PLUMBERS & STEAMFITTERS	34.41	14.09

PLUM0342A 07/01/2001

	Rates	Fringes
ALAMEDA COUNTY		
PLUMBERS, PIPEFITTERS AND STEAMFITTER	35.76	13.44

PLUM0355D 07/01/2001

	Rates	Fringes
ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:		
LANDSCAPE FITTER; UNDERGROUND UTILITY WORKER	22.25	5.95

PLUM0393A 07/01/2001

	Rates	Fringes
SAN BENITO AND SANTA CLARA COUNTIES:		
PLUMBER & PIPEFITTER:		
Work on motels and hotels which do not exceed 4 stories in height, excluding garages and parking areas	20.64	5.30
All other work	41.80	10.78

PLUM0467A 07/01/2001

	Rates	Fringes
SAN MATEO COUNTY:		
PLUMBER, PIPEFITTER, & STEAMFITTER		
REFRIGERATION & AIR CONDITIONING	39.15	11.05
ALL OTHER WORK	37.90	11.76

ROOF0027C 01/01/2002

	Rates	Fringes
FRESNO, KINGS, AND MADERA COUNTIES:		
ROOFER	21.40	6.90
FOOTNOTE: Work with pitch, pitch base of pitch impregnated products or any material containing coal tar pitch, on any building old or new, where both asphalt and pitchers are used in the application of a built-up roof or tear off: \$2.00 per hour		

additional.

ROOF0040B	08/01/2001	
	Rates	Fringes
SAN FRANCISCO & SAN MATEO COUNTIES:		
ROOFER	22.87	11.27

ROOF0081A	08/01/2000	
	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
ROOFER	22.80	9.85

ROOF0081E	08/01/2001	
	Rates	Fringes
CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
ROOFER	19.8	6.15

ROOF0095B	08/01/1996	
	Rates	Fringes
MONTEREY, SAN BENITO, SANTA CLARA, AND SANTA CRUZ COUNTIES:		
ROOFERS:		
Kettle person (2 kettles);		
Bitumastic, enameler,		
coal tar, pitch and		
mastic worker	26.07	6.75
All other work	24.07	6.75

SFCA0483A	08/01/2001	
	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
SPRINKLER FITTER (FIRE)	36.59	11.20

SFCA0669K	04/01/2002	
	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
SPRINKLER FITTER (FIRE)	29.35	6.05

SHEE0104A	07/01/2001	
	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
Work on projects with an HVAC		
contract price of \$270,000		
equipped with packaged units or		
a unitary system; Also, tenant		
completion work extending from an		
existing trunk line or an		
existing water or air loop to		
registers and/or diffusers; Also,		
remodel or add-on contracts on		
existing facilities providing the		
contract price is \$165,000 or		
less; Also, architectural sheet		
metal contracts of \$100,000 or		
less; Also, pre-engineered and		

pre-manufactured siding		
SHEET METAL WORKER	31.31	14.35
ALL OTHER WORK:		
SHEET METAL WORKER	37.00	14.52

SHEE0104B 07/01/2001		
	Rates	Fringes
MONTEREY AND SAN BENITO COUNTIES:		
SHEET METAL WORKER	30.93	12.28

SHEE0104D 07/01/2001		
	Rates	Fringes
SAN MATEO COUNTY:		
Work with an HVAC contract		
price of \$270,000 equipped		
with packaged units or a		
unitary system; Also, tenant		
completion work extending from		
an existing trunk line or air		
loop to registers and/or		
diffusers; Also, remodel or		
add-on contracts on existing		
facilities providing the		
contract price is \$165,000 or		
less; Also, architectural sheet		
metal contracts of \$100,000 or		
less; Also, pre-engineered and		
pre-manufactured siding		
SHEET METAL WORKER	34.15	12.56
ALL OTHER WORK		
SHEET METAL WORKER	38.05	13.27

SHEE0104E 07/01/2001		
	Rates	Fringes
SAN FRANCISCO COUNTY:		
Work with an HVAC contract		
price of \$80,000 or less;		
Also, tenant completion work		
providing the contract price is		
\$80,000 or less; Also, remodel		
or add-on contracts on existing		
facilities providing the contract		
price is \$50,000 or less; Also,		
architectural sheet metal		
contracts of \$100,000 or less;		
Also, pre-engineered and		
pre-manufactured siding		
SHEET METAL WORKER	36.44	13.17
ALL OTHER WORK:		
SHEET METAL WORKER	37.21	14.30

SHEE0104G 07/01/2001		
	Rates	Fringes
SANTA CRUZ COUNTY:		
SHEET METAL WORKER	32.35	10.86

SHEE0104H 07/01/2001		

	Rates	Fringes
SANTA CLARA COUNTY:		
Work with an HVAC contract price of \$270,000 equipped with packaged units or a unitary system; Also, tenant completion work extending from an existing trunk line or air loop to registers and/or diffusers; Also, remodel or add-on contracts on existing facilities providing the contract price is \$165,000 or less; Also, architectural sheet metal contracts of \$100,000 or less; Also pre-engineered and pre-manufactured siding	35.94	11.51
ALL OTHER WORK		
SHEET METAL WORKER	38.15	13.35

SHEE01040 07/01/2001		
	Rates	Fringes
ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
SHEET METAL WORKERS:		
Metal decking and siding	27.02	14.72

SHEE0162A 01/01/2002		
	Rates	Fringes
CALAVERAS AND SAN JOAQUIN COUNTIES:		
SHEET METAL WORKER	26.82	10.38

SHEE0162C 07/01/2001		
	Rates	Fringes
MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:		
SHEET METAL WORKER (excluding metal deck and siding)		
	27.25	11.46

SHEE0162D 06/01/2001		
	Rates	Fringes
FRESNO, KINGS, AND MADERA COUNTIES:		
SHEET METAL WORKER	27.57	12.21

SHEE0162M 07/01/1999		
	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
METAL DECKING AND SIDING ONLY:		
SHEET METAL WORKER	29.42	9.52

TEAM0094A 06/25/2001		
	Rates	Fringes
TRUCK DRIVERS:		
GROUP 1	22.62	12.25
GROUP 2	22.92	12.25
GROUP 3	23.22	12.25
GROUP 4	23.57	12.25

FOOTNOTES :

Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 3: Dump trucks, 8 yds. and including 35 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks, 7,500 gals. and over; Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Truck repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses

(29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

INDEX ATTACHMENTS

1. SUBMISSION OF EFT INFORMATION TO THE PAYMENT OFFICE

The Payment Office for this contract will be the USACE Finance Center (UFC) in Millington, Tennessee. Payments under this contract will be made by Electronic Funds Transfer (EFT).

The Direct Deposit Authorization Form (UFC-DISB-4) necessary for the UFC to make an Electronic Funds Transfer to your account and instructions for completing this form are attached. In accordance with FAR 52.232-34, Payment by Electronic Funds Transfer Other than Central Contractor Registration (see Section 00700), this form must be completed by the successful contractor and forwarded to the Payment Office at the following address: USACE Finance Center, ATTN: CEFC-AD (Attn: Lee Autry), 5720 Integrity Drive, Millington, TN 38054-5005. This form is available at the following website: www.fc.usace.army.mil. If you download this form, please be sure to add the Installation EROC code of "L2" for Sacramento District.

Further information regarding Electronic Funds Transfer is available at the following website: www.fms.treas.gov/eft/208agency.html.

2. PREAWARD SURVEY - SEE SECTION 00100, 52.0209-4501. THE PREAWARD SURVEY IS ATTACHED FOR INFORMATION PURPOSES ONLY; IT WILL BE REQUIRED ONLY FROM THE LOW BIDDER AFTER BID OPENING IF THE LOW BIDDER HAS NOT HAD A CONTRACT WITH THE SACRAMENTO DISTRICT, CORPS OF ENGINEERS, IN THE LAST TWELVE-MONTH PERIOD. IT IS NOT REQUIRED AS PART OF THE BID PACKAGE.
3. SAMPLE SUBCONTRACTING PLAN - SEE SECTION 00100, 52.0219-4581; SECTION 00700, FAR 52.219-9, AND SECTION 00800 52.0219-4509. THE SAMPLE SUBCONTRACTING PLAN IS ATTACHED FOR INFORMATION PURPOSES ONLY. A SUBCONTRACTING PLAN WILL BE REQUIRED ONLY FROM THE LOW BIDDER IF THE LOW BIDDER IS A LARGE BUSINESS AND THE LOW BID IS OVER \$1 MILLION. A SUBCONTRACTING PLAN IS NOT REQUIRED FROM SMALL BUSINESSES. THE SUBCONTRACTING PLAN IS NOT REQUIRED FROM THE LOW BIDDER UNTIL AFTER THE BID OPENING; IT IS NOT REQUIRED AS PART OF THE BID PACKAGE.
4. CONTRACTOR PREPARED AS-BUILTS
5. ***LIST OF DRAWINGS***

- S A M P L E -

SUBCONTRACTING PLAN

*SUBCONTRACTING PLAN SUBMITTED IN ACCORDANCE WITH PUBLIC LAW 95-507 (THE FOLLOWING FORMAT IS ESTABLISHED IN ACCORDANCE WITH FAR 52.219-9(d) (1) THROUGH (d) (11) AND INCLUDES THE REQUIRED STATUTORY ELEMENTS AS DESCRIBED IN FAR 19.704. IT ALSO INCLUDES ADDITIONAL REQUIREMENTS OF THE DFARS 219.704 AND AFARS 5119.704. EVALUATION OF THE SUBCONTRACTING PLAN BY THE GOVERNMENT WILL BE AS PRESCRIBED IN FAR 19.705 (AND ITS SUPPLEMENTS).

DO NOT JUST ADDRESS THE FOLLOWING ISSUES IN SHORT; FOLLOW THE GUIDANCE OF FAR 52.219-9 IN ITS ENTIRETY. FOR EXAMPLE, PARAGRAPH 11 BELOW ASKS FOR A DISCUSSION OF RECORDS; THE PLAN SHOULD ADDRESS ALL RECORDS AS DESCRIBED IN FAR 52.219-9(d) (11) (i) THROUGH (vi).

IN ACCORDANCE WITH FAR 19.704 IF THE CONTRACT CONTAINS OPTIONS, THE CUMULATIVE VALUE OF THE BASIC CONTRACT AND ALL OPTIONS IS CONSIDERED IN DETERMINING WHETHER A SUBCONTRACTING PLAN IS NECESSARY. ONCE IT HAS BEEN DECIDED IF A PLAN IS NECESSARY, THE SUBCONTRACTING PLAN SHALL CONTAIN SEPARATE PARTS, ONE FOR THE BASIC CONTRACT AND ONE FOR EACH OPTION. *IN OTHER WORDS, IT IS NECESSARY TO ADDRESS PLANNED SUBCONTRACTING DOLLARS AND PERCENTAGES OF TOTAL TO BE AWARDED TO SMALL, SMALL DISADVANTAGED, HUBZONE SMALL, WOMEN-OWNED SMALL, VETERAN-OWNED SMALL, SERVICE-DISABLED VETERAN-OWNED SMALL, HISPANIC SERVICING INSTITUTIONS AND TRIBAL COUNCIL UNIVERSITIES, HBCU/MIs, AND QUALIFIED NONPROFIT AGENCIES FOR THE BLIND AND OTHER SEVERELY DISABLED SEPARATELY FOR THE BASIC CONTRACT PERIOD AND EACH OPTION YEAR. THEREFORE, PARAGRAPHS 1 AND 2 BELOW MUST BE PREPARED SEPARATELY FOR THE BASE YEAR AND EACH OPTION YEAR. ALL OTHER PARTS OF THE SUBCONTRACTING PLAN ONLY NEED TO BE ADDRESSED ONCE.*

IF THE SUBCONTRACTING PLAN'S PROPOSED SUBCONTRACTING GOALS DO NOT MEET THE CORPS OF ENGINEERS' SUBCONTRACTING GOALS, THE SUBCONTRACTING PLAN MUST BE SUBMITTED WITH A FULL EXPLANATION OF THE REASONS FOR THE LESSER GOALS ESTABLISHED BY THE PLAN. A SMALL DISADVANTAGED BUSINESS GOAL OF LESS THAN FIVE PERCENT MUST BE APPROVED TWO LEVELS ABOVE THE CONTRACTING OFFICER (DFARS 219.705-4).

PROJECT TITLE: _____

RFP/IFB NO.: _____ CONTRACT NO.: _____

CONTRACTOR NAME: _____

DIVISION: _____

INDIVIDUAL COMPLETING THIS PLAN: _____

TELEPHONE NO.: _____

1. Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small businesses, small disadvantaged businesses, HUBZone small businesses, women-owned small businesses, veteran-owned small businesses, service-disabled veteran-owned small businesses as subcontractors. The offeror shall include all subcontracts that contribute to contract performance and may include a proportionate share of products and services

that are normally allocated as indirect costs.

Percentage Goals:		Corps of Engineers Subcontracting Goals
Small Business	_____ %	61.4%
Small Disadvantaged Business	_____ %	9.1%
Women-Owned Small Business	_____ %	5.0%
Veteran-Owned Small-Business	_____ %	3.0%
Service-Disabled Veteran-Owned Small Business	_____ %	3.0%

*Service-disabled veteran-owned small business concerns meet the definition of veteran-owned small business concerns, and offerors may also include them within the subcontracting plan goal for veteran-owned small business concerns.

2. Statement of: (i) total dollars planned to be subcontracted, (ii) total dollars planned to be subcontracted to small business; (iii) total dollars planned to be subcontracted to veteran-owned small business; (iv) total dollars planned to be subcontracted to HUBZone small business; (v) total dollars planned to be subcontracted to small disadvantaged business; and (vi) total dollars planned to be subcontracted to women-owned small business.

Total Cost of Prime Contract:	\$ _____	
Total Dollars to be Subcontracted	\$ _____	_____ %*
To Small Business	\$ _____	_____ %**
To HUBZone Small Business	\$ _____	_____ %**
To Small Disadvantaged Business	\$ _____	_____ %**
To Women-Owned Small Business	\$ _____	_____ %**
To Veteran-owned Small Business	\$ _____	_____ %**
To Service-Disabled Veteran-owned Small Business	\$ _____	_____ %**

NOTES: * Calculate percentage of Total Dollars to be Subcontracted to Total Cost of Prime Contract
 ** Calculate subcontracted dollars to each group to Total Dollars to be Subcontracted, NOT TO Total Cost of Prime Contract.

PLANNED SUBCONTRACTING INCLUDES ALL PLANNED EXPENDITURES. TOTAL ESTIMATED COST TO SUBCONTRACTORS AND GOALS MUST BE ESTABLISHED EVEN IF THE CONTRACT IS OF THE INDEFINITE-DELIVERY TYPE.

SUBCONTRACTS AWARDED TO SMALL DISADVANTAGED BUSINESSES, HUBZONE SMALL BUSINESSES, WOMEN-OWNED SMALL BUSINESSES, VETERAN-OWNED SMALL BUSINESSES, SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESSES, HISPANIC SERVICING INSTITUTIONS, AND TRIBAL COUNCIL UNIVERSITIES, HBCU/MIs, AND QUALIFIED NONPROFIT AGENCIES FOR THE BLIND AND OTHER SEVERELY DISABLED COUNT TOWARD THE OVERALL SMALL BUSINESS GOAL. HBCU/MIs ARE COUNTED AS A

SUBSET OF THE SMALL DISADVANTAGED GOAL. THE CORPS OF ENGINEERS HAS NOT BEEN ASSIGNED A SET GOAL FOR HUBZONE SMALL BUSINESS, HISPANIC SERVICING INSTITUTION AND TRIBAL COUNCIL UNIVERSITIES, HBCU/MIs OR QUALIFIED NONPROFIT AGENCIES FOR THE BLIND AND OTHER SEVERELY DISABLED.

IN ACCORDANCE WITH DFARS 219.703, QUALIFIED NONPROFIT AGENCIES FOR THE BLIND AND OTHER SEVERELY DISABLED THAT HAVE BEEN APPROVED BY THE COMMITTEE FOR PURCHASE FROM PEOPLE WHO ARE BLIND OR SEVERELY DISABLED UNDER THE JAVITS-WAGNER-O'DAY (41 U.S.C. 46-48) ARE ELIGIBLE TO PARTICIPATE IN THE PROGRAM AS A RESULT OF 10 U.S.C. 2410d AND SECTION 9077 OF PUB. L. 102-396 AND SIMILAR SECTIONS IN SUBSEQUENT DEFENSE APPROPRIATIONS ACTS. UNDER THIS AUTHORITY SUBCONTRACTS AWARDED TO SUCH ENTITIES MAY BE COUNTED TOWARD THE PRIME CONTRACTOR'S SMALL BUSINESS SUBCONTRACTING GOAL.

3. A description of the principal types of supplies and services to be subcontracted and an identification of the types planned for subcontracting to (i) small business concerns, (ii) small disadvantaged business concerns, (iii) HUBZone small business concerns, (iv) women-owned small business concerns, (v) veteran-owned small business concerns (vi) service-disabled veteran-owned small business concerns, (vii) Hispanic Servicing Institutions, and Tribal Council Universities, (viii) HBCUs and MIs, (ix) qualified nonprofit agencies for the blind and other severely disabled.

4. A statement of the method used in developing the proposed subcontracting goals for small business concerns, small disadvantaged business concerns, HUBZone small business concerns, women-owned small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, Hispanic Servicing Institutions and Tribal Council Universities, HBCUs and MIs, and qualified nonprofit agencies for the blind and other severely disabled.

5. A description of the method used to identify potential sources for solicitation purposes to assure small, small disadvantaged, HUBZone small, women-owned small, veteran-owned small, service-disabled veteran-owned small, Hispanic Servicing Institutions and Tribal Council Universities, HBCU and MI, and qualified nonprofit agencies for the blind and other severely disabled participation (e.g., existing company source lists, the Procurement Marketing and Access Network (PRO-Net) of the Small Business Administration (SBA), the list of certified small disadvantaged business concerns of the SBA, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, veteran-owned small, HUBZone small, small disadvantaged, women-owned small business, and service-disabled veteran-owned trade associations).

6. A statement as to whether or not the offeror included indirect costs in establishing the subcontracting goals, and if so, a description of the method used to determine the proportionate share of indirect costs to be incurred with: (i) small business concerns, (ii) small disadvantaged business concerns, (iii) HUBZone small business concerns, (iv) women-owned small business concerns, (v) veteran-owned small business concerns, (vi) service-disabled veteran-owned small business concerns, (vii) Hispanic Servicing Institutions and Tribal Council Universities, (viii) HBCUs and MIs, and (ix) qualified nonprofit agencies for the blind and other severely disabled.

7. The name of the individual employed by the offeror who will administer the offeror's subcontracting program and a description of the duties of the individual.

Name: _____

Title and Telephone Number: _____

Address: _____

City, State and Zip Code: _____

Duties (Attachment may be used):

8. Describe the efforts the offeror will make to assure that small business concerns, small disadvantaged business concerns, HUBZone small business concerns, women-owned small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small, business concerns, Hispanic Servicing Institutions and Tribal Council Universities, HBCUs and MIs), and qualified nonprofit agencies for the blind and other severely disabled will have an equitable opportunity to compete for subcontractors under this contract.

9. I do herewith assure that this concern will include the clause at FAR 52.219-8 entitled "Utilization of Small Business Concerns" in all subcontracts which offer further subcontracting opportunities and will require all subcontractors (except small business concerns) who receive subcontracts in excess of \$500,000 (\$1,000,000 for construction of any public facility) to adopt a plan similar to the plan agreed to by this concern and in consonance with the FAR clause 52.219-9.

10. I also assure that this concern will (i) cooperate in any studies or surveys as may be required, (ii) submit periodic reports in order to allow the Government to determine the extent of compliance by the offeror with the subcontracting plan, and (iii) submit Standard Form (SF) 294, Subcontracting Report for Individual Contracts, and SF 295, Summary Subcontract Report, in accordance with the instructions of the forms, and (iv) ensure that the subcontractors under this contract agree to submit the required SF 294s and 295s. I assure that this concern will submit an SF 295 on Corps of Engineers projects only. The SF 295 shall be completed and distributed in accordance with the Corps of Engineers supplemental instructions. I will not report Corps of Engineers projects through any other agency unless authorized by the Contracting Officer.

11. Provide a description of the types of records the offeror will maintain to demonstrate procedures which have been adopted to comply with the requirements and goals set forth in the plan, including the establishment of source lists; and a description of its efforts to locate small business, small disadvantaged business, HUBZone small business, women-owned small business, veteran-owned small business, service-disabled veteran-owned small business, Hispanic Servicing Institutions and Tribal Council Universities, HBCUs and MIs, and qualified nonprofit agencies for the blind and other severely disabled. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):

a. Source lists (e.g., PASS), guides, and other data that identify small business, small disadvantaged business, HUBZone small business, women-owned small business, veteran-owned small business, service-disabled veteran-owned small business, Hispanic Servicing Institutions and Tribal Council Universities, HBCUs and MIs), and qualified nonprofit agencies for the blind and other severely disabled.

b. Organizations contacted in an attempt to locate sources that are small business, small disadvantaged business, HUBZone small business, women-owned small business, veteran-owned small business, service-disabled veteran-owned small business, Hispanic Servicing Institutions and Tribal Council

Universities, HBCUs and MIs), and qualified nonprofit agencies for the blind and other severely disabled.

c. Records on each subcontract solicitation resulting in an award of more than \$100,000, indicating (1) whether small business concerns were solicited and if not, why not; (2) whether veteran-owned small business concerns were solicited and if not, why not; (3) whether HUBZone small business concerns were solicited and if not, why not; (4) whether small disadvantaged business concerns were solicited and if not, why not; (5) whether women-owned small business concerns were solicited and if not, why not; (6) whether service-disabled veteran-owned small business concerns were solicited and if not, why not; (7) whether Hispanic Servicing Institutions and Tribal Council Universities concerns were solicited and if not, why not; (8) whether HBCUs and MIs were solicited and if not, why not; (9) whether qualified nonprofit agencies for the blind and other severely disabled were solicited and if not, why not; and (8) if applicable, the reason award was not made to a small business concern.

d. Records of any outreach efforts to contact (A) trade associations, (B) business development organizations, and (C) conferences and trade fairs to locate small business, small disadvantaged business, HUBZone small business, women-owned small business, veteran-owned small business, service-disabled veteran-owned small business, Hispanic Servicing Institutions and Tribal Council Universities, HBCUs and MIs, and qualified nonprofit agencies for the blind and other severely disabled sources.

e. Records of internal guidance and encouragement provided to buyers through (A) workshops, seminars, training, etc., and (B) monitoring performance to evaluate compliance with the programs's requirements.

f. On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having company or division-wide annual plans need not comply with this requirement.

12. Discuss the extent to which the offeror has historically been successful in complying with the requirements of the clauses at FAR 52.219-8, Utilization of Small Business Concerns, and 52.219-9, Small Business Subcontracting Plan, in establishing realistic yet challenging goals and show evidence of ability to achieve the goals. Information addressing past performance on DoD contracts evidencing achievement of established subcontracting goals will be in the form of Standard Forms 294 and 295 (attach these to this plan). Offerors who have had no prior Department of Defense contracts from which to assess past performance will not be penalized. Those who have had prior DoD contracts must provide the SF 294s and 295s on past DoD contracts.

*

(Signature)

(Title of Corporate Officer)

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**SPECIFICATIONS
FOR
GUADALUPE RIVER PROJECT
CONSTRUCTION CONTRACT 3A, PHASE 1
(UPRR BRIDGE NO. 4 TO SANTA CLARA STREET)
SAN JOSE, CALIFORNIA**

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SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SUMMARY

Work will be paid for at Unit and Lump Sum prices listed in the Pricing Schedule. It is the responsibility of the Contractor to make a thorough examination of the Contract Documents, the available data and information and the site conditions to determine the scope of work included in bid items listed in Pricing Schedule. The payment of said prices will constitute complete compensation for all work shown on the Drawings and provided in the Specifications or other Contract Documents, and for all costs of accepting the general risks and liabilities inherent in the Work and shall include, but not be limited to, compensation for overhead, profit, materials, equipment and labor and services, and performing all work required to accomplish and complete the work specified under each item and all other work required by the Contract Documents.

1.2 SCHEDULE OF VALUES

No later than 10 days after notice as apparent successful contractor, the apparent successful contractor shall submit, for approval and in a form directed by or acceptable to the Contracting Officer, a complete schedule of the values of the various portions of the Work, including quantities and unit prices aggregating the Contract Price (except in cases and to the extent that accepted unit prices form the basis for payment). The schedule shall subdivide the Work into component parts in sufficient detail to serve as the basis for progress payments during construction, to coordinate with the Project Schedule required under Section 01320, and to form the basis for possible change orders or field orders. The schedule shall be supported by such data to substantiate its correctness as the Contracting Officer may require. Each item in the Schedule of Values shall include its proper share of overhead and profit. An unbalanced breakdown providing for overpayment on items of the Work which will be performed first will not be approved. The Schedule of Values, when approved by the Contracting Officer and after execution of a Contract Agreement, shall be used only as a basis for the Contractor's applications for payment and not for additions to or deductions from the Contract Price.

When directed by the Contracting Officer, the apparent low bidder or Contractor shall submit for approval, a revised Schedule of Values coordinated to revised progress schedules made in accordance with the Contract Documents.

1.3 LUMP SUMS

The quantities of work performed for items bid on a lump sum basis will not be measured except for the purpose of determining reasonable progress payments. Progress payments will be made based on the approved Schedule of Values.

1.4 UNIT PRICES

For items bid on a unit price basis, the estimated quantities given in the Bid Form are approximate and are given only as a basis for comparison of bids. The Government does not expressly, nor by implication, warrant that the actual amount of work will correspond to the estimated quantities. The

Government reserves the right to increase or decrease the amount of work performed under unit price Bid Items, or to omit such work altogether. No adjustments to the Contract unit prices will be made, nor will any claim for loss of anticipated profit be allowed on account of any such increase, decrease, or omission except as provided for in FAR 52.211-18 "Variation in Estimated Quantity". Payment for unit price Bid Items will be made at the Contract unit prices stated in the Contractor's Bid, measured in accordance with specified methods of measurement as stated in this section.

1.5 MEASUREMENT OF QUANTITIES

1.5.1 Unit Prices

The quantity of work to be paid for under any item for which a unit price is specified in the Description of Bid Items shall be the actual amount of units of work satisfactorily completed in accordance with the Contract Documents, and as directed by the Contracting Officer. No payment will be made for work done outside of the prescribed or ordered limits.

1.5.2 Measurements and Payment Quantities

Contractor shall take all measurements and compute all payment quantities. The Contracting Officer will verify and approve measurements and quantities. Measurements and computations shall be made by methods approved by the Contracting Officer for the class of work measured.

1.5.3 United States Standard Measure

Contractor shall measure all work to be paid for on a unit price basis in accordance with United States Standard Measures except as otherwise specified. A ton shall consist of 2,000 pounds avoirdupois.

1.5.4 Material Paid for By Weight

Material paid for by weight shall be weighed on sealed scales certified by and regularly inspected by an inspector of the state in which the scale is located.

1.5.5 Material Paid for By Volume

When material is to be measured and paid for on a volume basis and it is impractical to determine the volume by the method of measurement specified in a Bid Item, or when requested by Contractor in writing and approved by Contracting Officer in writing, the material will be weighed in accordance with the requirements specified for weight measurement. Such weights will be converted to volume measurement for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by Contracting Officer and shall be agreed to by Contractor before such method of measurement of pay quantities will be adopted.

1.5.6 Metering Devices

When metering devices are required in the Specifications or are used to measure the quantity of liquids used in the Work, the metering devices shall be inspected and tested for accuracy at the Contractor's expense as often as Contracting Officer may deem necessary.

1.5.7 Compensation for Measurement

Full compensation for all expense involved in conforming to the requirements for measuring and weighing materials shall be considered as included in the unit prices paid for the materials being

measured or weighed and no additional compensation will be allowed therefor.

1.5.8 Non-Payment for Rejected Products.

A. Payment will not be made for any of the following:

1. Materials wasted.
2. Materials determined as unacceptable before or after placement.
3. Materials not completely unloaded from the transporting vehicle.
4. Materials placed beyond the lines, grades and levels of the required Work (as indicated in the Contract Documents or as established by the Contracting Officer).
5. Materials remaining on hand after completion of the Work.
6. Loading, hauling, handling, and disposing of rejected materials.

B. Materials described above (items 1 through 6) shall not be included in final total quantities.

1.6 SCOPE OF PAYMENT

1.6.1 General

All of the Work of the Contract is included in the Pricing Schedule.

1.6.2 Division 0 and Division 1

No separate payment will be made for any of the requirements of the General Conditions, the Supplementary Conditions, nor for any of the work specified in Division 1 Sections of the Specifications. The cost thereof will be considered as included in the prices paid for the various contract items included in the Pricing Schedule. *Indirect costs shall be distributed over all of the items in the Pricing Schedule.*

1.6.3 Full Compensation

Payment for all items shall include full compensation for all labor, materials, tools, equipment, plant, transportation services and incidentals; application or installation of each item of Work; overhead and profit and incidentals necessary to the completed Work and for performing all work contemplated and embraced under the Contract; and for completing the work according to the Contract Documents. Neither the payment of any estimate nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective work or material.

1.6.4 Limits of Payment

Where Limit of Payment lines are shown on the Drawings, these lines show the extent of measurement for payment. All quantities of work performed outside those lines unless otherwise specified or directed by the Contracting Officer will not be paid for.

1.6.5 Loss of Anticipated Profit

No compensation will be made in any case for loss of anticipated profits.

1.7 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an

"FIO" designation are for information only. The following shall be submitted in accordance with Section 01330; SUBMITTAL PROCEDURES:

SD-07 Schedules

Schedule of Values; GA

Submit Schedule of Values as required herein. Schedule will be used to measure the progress of the work, and to provide the basis for approval progress payment request containing lump sum bid items.

1.8 DESCRIPTION OF BID ITEMS

The Pricing Schedule is presented to indicate major categories of work for the purposes of comparative bid analyses and payment breakdown for monthly progress payments. The items in the Pricing Schedule are not exhaustive and complete descriptions of the work categories. The Contractor shall determine, and include in the prices, did all materials, labor, equipment and incidentals for doing all work to complete all Contract work as shown and specified.

1.9 PRICING SCHEDULE

Bid Item 1 - Mobilization and Demobilization (Lump Sum):

1. ~~*This item*~~ Mobilization shall consist of all work required to set up the construction site and prepare for construction ***and demobilization at the completion of the Work of all plant and equipment.*** Mobilization shall include mobilization of general equipment and plant onto the Site, procurement of required bonds and insurance, field offices, ***general*** construction facilities, ~~and temporary controls including erosion control seeding and fabric, temporary fencing, temporary utilities, temporary traffic control systems, and acquisition of equipment, supplies, and incidentals necessary for starting and carrying out the Work. This bid item does not cover specialized equipment and plant covered under specific Bid Items. Incidentals for starting and carrying out the Work include salaries of on site office staff, transportation, per diem, CPM scheduling, submittals, permits, fees, insurance, bonds, quality control, testing and lab, Health and Safety training, home office support, heat, electricity, utilities, other Division 1 items unless specifically covered elsewhere, and all other work not included or paid for as subsidiary work or directly under items.~~
2. ~~The value of the amount entered under lump sum Bid Item No. 1 shall not be greater than 5% of the total Bid Price.~~
3. ~~The first mobilization payment will be made after the following items of work are received and/or completed:~~
 - a. ~~An approved construction CPM schedule and the approved Schedule of Values of the Work~~
 - b. ~~Transportation of plant and equipment to the site required for the first month's operations.~~
 - c. ~~Construction of parking areas, field offices and facilities and construction yards.~~
 - d. ~~Setup of required field offices with equipment, furnishings and utility, and all required facilities are ready for use.~~

- ~~e. Required permits, bonds, and insurance certificates.~~
 - ~~f. A fire protection plan and system.~~
 - ~~g. A health and safety program as specified in Section 01351; SAFETY, HEALTH, AND EMERGENCY RESPONSE.~~
 - ~~h. Contractor's superintendent on-site and construction work has commenced.~~
 - ~~i. Submittals as required by Section 01330; SUBMITTAL PROCEDURES.~~
4. ~~Payment of lump sum Bid Item No.1 will be according to the following schedule.~~
- ~~a. Payment No. 1 in the amount of 25% of lump sum Bid Item No. 1 shall occur according to Paragraph 3 above.~~
 - ~~b. Payment No. 2 in the amount of 25% of lump sum Bid Item No.1 shall occur after the Contractor has begun installation of the excavation dewatering system necessary to perform the work as required by the Contract Documents. This includes any and all equipment necessary to treat and discharge water.~~
 - ~~c. Payment No. 3 in the amount of 25% of lump sum Bid Item No.1 shall occur after the Contractor has mobilized plant and equipment for excavation for the culvert construction including shoring, and excavation has started.~~
 - ~~d. The remaining balance of lump sum Bid Item No. 1 shall be paid after culvert construction has started.~~

Bid Item 2 — NOT USED

Bid Item 2 3 – Demolition (Lump Sum): Bid Item covers all work associated with removing and disposing of existing structures and debris within the work area and as shown on the Drawings, except the demolition of Old Julian Bridge. The bid item includes, but is not limited to, cutting shrubs, bushes, and other vegetation; grubbing stumps; and removing stumps, grass, shrubs, bushes, other vegetation, and demolition of pavements and sidewalks, fences, manholes, drop inlets, pipes, water wells and miscellaneous concrete, and all additional demolition work called for in the Contract Documents.

Payment will be made on a Lump Sum basis.

Bid Item 3 4 - Permanent Fencing (Linear Foot): Bid Item covers all work associated with installation of permanent fencing and gates, and connection to existing fencing, all as specified in the Contract Documents. The bid item includes, but is not limited to, fencing, gates, posts, braces and top rails, accessories and padlocks.

Payment will be made based on the linear feet of fencing, including gates, installed in accordance with the Contract Documents and accepted by the Contracting Officer.

Bid Item 4 5 - Old Julian Street Bridge Demolition (Lump Sum): Bid Item covers all work associated with the demolition and disposal of the Old Julian Street Bridge and the restoration of the river channel within the limits of work across the channel. The bid item includes, but is not limited to, the temporary diversion of the river, complying with the

general and environmental requirements for work within the channel limits as specified in the Contract Documents, demolition and disposal of the bridge abutments, deck and beams, and the piers.

Payment will be made on a lump sum basis.

Bid Item 6 — NOT USED

Bid Item 5 7 - Dewatering and Surface Water Control (Lump Sum): Bid Item covers all work associated with the design, selection, installation, operation, maintenance, and all excavation dewatering required by the Contract Documents or as necessary to perform the Work. The work includes sampling and measurement of the contamination levels of the Wastewater as specified in the Waste Discharge Requirements of Order No. 99-051, General Permit under the National Pollutant Discharge Elimination System No. CAG912003, for Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Volatile Organic Compounds as required by the Contract Documents. Treatment of contaminated water is covered by Bid Item 6 8. The bid item also includes construction, maintenance, and removal of temporary and protective works for diversion and control of all surface water from any source necessary to perform the Work.

Payment will be made on a lump sum basis.

Bid Item 6 8 - Water Treatment:

Bid Item 6aa-8a- Wastewater Treatment System (Lump Sum): Bid Item covers all work associated with providing, mobilizing and demobilizing, and maintenance of a Wastewater Treatment System including NPDES permit fee as required by the Contract Documents which is capable of meeting the Wastewater Discharge Requirements specified in the Contract Documents. The System shall be mobilized and fully functional prior beginning wastewater discharge and shall be kept on site for the duration of the Work at least through to Substantial Completion, unless otherwise agreed to by the Contracting Officer.

Payment will be made on a lump sum basis.

Bid Item 6ab-8b- Operation: Bid Item covers all work associated with the operation of the Wastewater Treatment System, including but not limited to personnel, analytical tests, and periodic NPDES reports, power and replacement of consumable items except for as carbon filters.

Payment will be made on a per-week (7 day) basis. Partial weeks will be paid at the weekly rate. Measurement for payment will be made considering the need for operation of the Wastewater Treatment System, as determined by the Contracting Officer, based upon the contamination levels measured in the Wastewater influent.

Bid Item 6ac-8c - Carbon Filters (Ton): Bid Item covers the costs of replacement of carbon filter consumed during operation of the Wastewater Treatment System.

Payment will be made based on the weight, measured in units of Tons, of carbon filter actually consumed and replaced in the Wastewater Treatment System as approved by the Contracting Officer.

Bid Item 7 9 – Excavation (Cubic Yard): This Bid Item covers all work associated with the design, supply, installation and testing of excavation shoring and bracing systems including the temporary steel structure and internal bracing associated with the culvert termination bulkhead; characterization of soils for disposal, excavation for the culvert, retaining walls, weirs, aprons, inlet structures, including all excavation associated with the installation of the gabion terraces and walls and Cellular Concrete Mats; all work associated with PG&E Utility Relocations, and all other miscellaneous excavation to the lines and grades shown in the Drawings. The bid item does not include the excavation and shoring for the construction of the sewer siphon crossings at St John Street and Old Julian Street nor does it include ~~other~~ excavations and associated shoring for storm drains, sewers, and other utilities.

Payment will be full compensation for shoring, instrumentation, instrumentation monitoring, excavation, removing materials from excavations, hauling to temporary stockpile if material is to be reused or characterized on site, soil characterization, hauling to point of final disposal, disposal costs for non-hazardous materials, and preparation of the subgrade as necessary to begin construction of the culvert and other structures and facilities.

Payment will be made the basis of in-place cubic yards. Measurement for payment will be made based upon the difference between the original ground surface topography and the accepted excavated surface topography, except that no payment will be made for culvert excavation outside of the vertical limits defined by the outside face of the exterior walls of the box culvert.

Bid Item 10 — NOT USED

Bid Item 8 44 – Special Soil Handling and Disposal

Bid Item 8aa-44a-Hazardous Waste (Tons): Bid Item covers all work associated with handling, transportation to and disposal at an approved waste treatment or disposal facility or facilities of all Hazardous Waste excavated from within the limits of “Known Contaminated Soil” as shown on the Drawings. Excavation of the soil is covered under Bid Item 7 9. Materials contaminated by the Contractor’s operations, will be the Contractor’s responsibility and will not be measured or paid for by the Government.

Payment will be made on the basis of Tons of soil disposed of. Measurement for payment will be determined on the basis of weigh tickets issued by the approved disposal facility. If the Contractor elects to stabilize and recycle waste materials, measurement will be by scales conforming to the requirements specified herein. Payment under this bid item will be contingent upon the prior written agreement of the Contracting Officer that the soil test results for the materials to be disposed of are consistent the hazardous waste classification assigned to the materials.

Bid Item ~~8ab-11b~~ Designated Waste (Tons): Bid Item covers all work associated with the handling, the transportation to and disposal at an approved waste treatment or disposal facility or facilities of Designated Waste excavated from within the limits of “Known Contaminated Soil” as shown on the Drawings. Excavation of the soil is covered under Bid Item 7 9. Materials contaminated by the Contractor’s operations, will be the Contractor’s responsibility and will not be measured or paid for by the Government.

Payment will be made on the basis of Tons of Designated Waste material disposed of. Measurement for payment will be determined on the basis of weigh tickets issued by the disposal facility. If the Contractor elects to stabilize and recycle waste materials, measurement will be by scales conforming to the requirements specified herein. Payment under this bid item will be contingent upon the prior written agreement of the Contracting Officer that the soil test results for the materials to be disposed of are consistent the hazardous waste classification assigned to the materials.

Bid Item 9 12 – Concrete Box Culverts including Inlet Structures (Lump Sum): This Bid Item covers all work associated with the formwork, reinforcement, and cast-in-place concrete for the single and twin sections of culvert, the inlet walls and slab. Work includes, but is not limited to, all work associated with waterstops, expansion and control joints, decorative form liners, geosynthetic wall drains, sand filter and gravel drain layers, crushed rock, ~~membrane waterproofing~~ ***geosynthetic clay liner***, airvent grates and associated fittings, miscellaneous metal, and all components required to complete the Culvert, Santa Clara Retaining Wall No. 2, West Santa Clara Plaza except decorative paving, Santa Clara Retaining Wall No. 3, Santa Clara Retaining Wall No. 4, Santa Clara inlet back wall, front wall, weir and slab, Santa Clara Inlet Apron, Santa Clara Inlet Sediment Training Wall, St. John Retaining Wall No. 6, St. John inlet front wall, back wall, weir, and slab, St. John Inlet Apron, and St. John Inlet Sediment Training Wall as required by the Contract Documents.

Payment will be made on a Lump Sum basis.

Bid Item 10 13 – Backfill (Cubic Yard): This Bid Item covers all work associated with Backfill. This item includes, but is not limited to, the procurement, hauling, placement, moisture control, compaction and construction control testing.

Payment will be made on the basis of in-place compacted cubic yards. Measurement will be made based upon the difference between the accepted excavated surface topography and the accepted final backfill surface topography except that no payment will be made for backfill placed outside of the vertical limits defined by the outside face of the exterior walls of the culvert and below the original ground surface.

Bid Item 11 14 – New Julian Street Closure and Restoration (Lump Sum): This Bid Item covers all work associated with the partial closure of New Julian Street to allow construction of the box culvert across the street and with the subsequent reconstruction of New Julian Street. Closure includes, but is not limited to, ***traffic control, including barricades, temporary traffic lighting, and signage*** and demolition and removal of the street surfacing, sidewalks and median, including but not limited to temporary removal of the traffic control lighting system and existing street lighting, including power cables, and

protection of traffic signal interface cable and fiber optic cables, all as required by the Contract Documents. ~~All temporary traffic control including but not limited to, barricades, temporary traffic lighting, pavement striping, and signage is covered in Bid Item 1.~~ Reconstruction of New Julian Street includes, but is not limited to, (i) construction of the roadway including aggregate base, asphalt concrete, pavement marking and median reconstruction, (ii) replacement of side walks, and (iii) permanent traffic control lights and street lighting including power connection.

Payment will be made on a lump sum basis.

Bid Item 12 15 – Saint John Street Demolition and Restoration (Lump Sum): Bid Item covers all work associated with the closure of Saint John Street to allow construction of the box culvert across the street, and includes the subsequent reconstruction of Saint John Street. Closure includes, but is not limited to, ***traffic control, including barricades, temporary traffic lighting, and signage*** and demolition and removal of the street surfacing, sidewalks and median, including but not limited to temporary removal of the existing street lighting, including power cables, all as required by the Contract Documents. ~~All temporary traffic control including but not limited to, barricades, temporary traffic lighting, pavement striping, and signage is covered in Bid Item 1.~~ Reconstruction of Saint John Street includes, but is not limited to, construction of the roadway including aggregate base, utility conduit encasements, asphalt concrete, pavement marking, placement of reflective depth markers, street lighting including power connection and replacement of side walks.

Payment will be made on a Lump Sum basis.

Bid Item 13 16 – Sobrato Property Restoration (Lump Sum): Bid Item covers all Work associated with the restoration of the Sobrato property parking area as required by the Contract Documents. Demolition of existing facilities on Sobrato property is covered under Bid Item 2 3. Work includes, but is not limited to, construction and removal of temporary access road and restoration of Sobrato property including rough and fine grading, subgrade preparation, aggregate base, asphalt concrete paving, vehicular and pedestrian accent paving, vehicular concrete paving, concrete bands, surface markings and striping, lighting, landscaping, irrigation and subsurface drainage including but not limited to excavation and backfill, reinforced concrete pipe, storm drain manholes, drainage inlets, flap gate boxes and connection to existing pipes and to the box culvert.

Payment will be made on a Lump Sum basis.

Bid Item 14 17 – Saint John Street Sanitary Sewer (Lump Sum): Bid item covers all work associated with construction of the Sanitary Sewer siphon at Saint John Street. The work includes, but is not limited to, ***traffic control***, shoring and excavation for the construction of the siphon, diversion of sewer flows, construction of the siphon including the inlet and outlet structures, pipes and connections to existing Sanitary Sewer Manholes, and backfill all as required by the Contract Documents. ~~All temporary traffic control including but not limited to, barricades, temporary traffic lighting, pavement striping and signage is covered in Bid Item 1.~~

Payment will be made on a Lump Sum basis.

Bid Item 15 18 – Old Julian Street Sanitary Sewer (Lump Sum): Bid Item covers all work associated with construction of the Sanitary Sewer siphon at Old Julian Street. The work includes, but is not limited to, shoring and excavation for the construction of the siphon, diversion of sewer flows, construction of the siphon including the inlet and outlet structures, pipes and connections to existing Sanitary Sewer Manholes, and backfill all as required by the Contract Documents.

Payment will be made on a Lump Sum basis.

Bid Item 16 19 – Side Drains 1 through 3 and Temporary Outlet (Lump Sum): Bid Item covers all work associated with the construction of Side Drains Numbers 1, 1A, 2, 3, and Temporary Outlet required by the Contract Documents. Item work includes, but is not limited to, excavation, reinforced concrete pipe, storm drain manholes, connection to the box culvert, rip rap and filter fabric for temporary outlet, backfill and all other related work as required by the Contract Documents.

Payment will be made on a lump sum basis.

Bid Item 17 20 – Cellular Concrete Mat (Square Yard): Bid Item covers all work associated with the construction of Cellular Concrete Mats (CCM) at the inlet. Excavation and subgrade preparation are covered in Bid Item 7 9. The work includes, but is not limited to CCM, earth anchors, connections to adjacent structures, filter fabric, gravel drain, low flow channel conform walls and weirs and the upstream transition trench cobbles, stone protection, boulders for instream cover, concrete backfill, in channel work at USGS weir including demolition, backfill, filter fabric, and rip rap placement as required by the Contract Documents.

Payment will be made on the basis of square yards of CCM placed and approved.

Bid Item 18 21 – Gabions (Cubic Yard): Bid Item covers all work and materials associated with the construction of gabion walls and the gabion mattresses for the terrace walls as required by the Contract Documents.

Payment will be made on a cubic yard basis of completed gabion baskets. Measurement will be the nominal dimension of the completed gabion wire baskets.

Bid Item 19 22 – Crushed Rock (Ton): Bid Item covers all work associated with the construction of the crushed rock base course beneath the gabion walls, terrace walls and riverwalk as required by the Contract Documents. Excavation and subgrade preparation is covered in Bid Item 7 9.

Payment will be made the basis of Tons of Crushed Rock material placed and accepted by the Contracting Officer. Measurement for payment will be determined on the basis of weigh tickets issued by the crushed rock supplier.

Bid Item 20 23 – Type 1 Filter Fabric (Square Yard): Bid Item covers all work associated with the filter fabric (Type 1) beneath crushed rock and beneath the gabion

mattresses behind the Terrace walls as required by the Contract Documents.

Payment will be made on a square yard basis. Measurement for payment will be the area actually covered in accordance with the Contract Documents and which the Contracting Officer has approved.

Bid Item 21 24 – Terrace Wall Concrete (Cubic Yard): Bid Item covers all work associated with the concrete construction for the Terrace Walls on the east side of the channel north of West Santa Clara Street. Work includes but is not limited to the formwork, reinforcement, drain pipe, and cast-in-place concrete as required by the Contract Documents.

Payment will be made on a Cubic Yard basis.

Bid Item 25 — NOT USED

Bid Item 26 — NOT USED

Bid Item 22 27 – Drilled Pier Retaining Walls (Lump Sum): Bid Item covers all work, associated with construction of Santa Clara Street Retaining Wall No. 5 and Santa Clara Wingwall Retaining Wall No. 1. Excavation is covered in Bid Item 7 9. Item includes, but is not limited to, drilled shafts, concrete facing, shotcrete facing, wall to shaft connection, wall drains, wall rail, and sidewalk.

Payment will be made on a Lump Sum basis.

Bid Item 23 28 – Riverwalk/Maintenance Road (Linear Foot): Bid Item covers all work associated with construction of the Riverwalk/Maintenance Roads. Excavation is covered in Bid Item 7 9. Item includes, but is not limited to, subgrade preparation, aggregate base, bituminous surface course, bituminous prime coat and tack coat, concrete bands and wood headers, sidewalk ramps and driveways, curbs and gutters, and pavement markings, and swing gates.

Payment will be made on the basis of Linear Feet of River Walk Path installed in accordance with the Contract Documents and accepted by the Contracting Officer. Measurement for payment will be measured along the Road centerline.

Bid Item 24 29 –Riverwalk Stairs (Lump Sum): Bid Item covers all work associated with construction of the stairs at Santa Clara Street, as required by the Contract Documents. Excavation is covered in Bid Item 7 9. Item includes, but is not limited to, concrete, reinforcing steel, formwork, surface finishing, subgrade preparation, aggregate base, stone veneer and mortar, drain pipe, pipe railing and connection details to and against adjacent structures.

Payment will be made on a Lump Sum basis.

Bid Item 25 30 – Decorative Pedestrian Railing (Lump Sum): Bid Item covers all work associated with custom guard rail and handrail as shown on the L-Series Contract Drawings

and specified in the Contract Specifications.

Payment will be made on a Lump Sum basis.

Bid Item 26 31 – Decorative Paving (Lump Sum): Bid Item covers all work associated with decorative paving. Includes, but is not limited to, stone paving, decorative paving, turf block, decomposed granite, granite, colored and custom design concrete paving and plaza top of stair finish.

Payment will be made on a Lump Sum basis.

Bid Item 27 32 – Landscaping (Lump Sum): Bid Item covers all work associated with construction of the Landscaping except landscaping for Sobrato Restoration. Item includes, but is not limited to, soil preparation, trees, tree rootball drain system, shrubs, accent plant, and groundcover landscaping, including supplying plants, preparation of planting pits, backfill mix, staking, mulch, fertilizing, engineered soil mix, maintenance including associated meter rates and water usage, Earth and CCM Seeding Operations and Sod placement including hydroseeding, straw mulch, protection and Seeding Maintenance, all as required by the Contract Documents

Payment will be made on a Lump Sum basis.

Bid Item 28 33 – Irrigation System (Lump Sum): Bid Item covers all work associated with installation, testing and maintenance of the irrigation system as required by the I-Series Contract Drawings and specified in the Contract Specifications. Item includes, but not limited to, fees and permits, water meters, pressure backflow assemblies, electric control hydrometers control valves, station controllers, main and lateral lines, coupling valves, rotary and spray sprinklers, bubblers, all with associated enclosures, risers and covers.

Payment will be made on a Lump Sum basis.

Bid Item 29 34 – Electrical Work (Lump Sum): Bid Item covers all work associated with permitting, service connections, installation, testing and maintenance of the electrical system as required by the E-Series Contract Drawings and specified in the Contract Specifications, except permanent traffic control systems at New Julian, which are covered in Bid Item *11 44*.

Payment will be made on a Lump Sum basis.

Bid Item 30 35 – Site Amenities (Lump Sum): Bid Item covers all work associated with site amenities as required by the Contract Documents. Item includes, but is not limited to, bollards and granite bollards, benches, swing gates, picnic tables, trash receptacles, stone seat walls, anti-skateboard devices, drinking fountains and associated water and sewer lines, Confluence Plaza monument, Pool of Genes monument, street and riverwalk barricades.

Payment will be made on a Lump Sum basis.

Bid Item 36—Other Work (Lump Sum): Bid Item covers all required work not included in one of the preceding bid items.

Payment will be made on a Lump Sum basis.

OPTIONAL ITEMS

Bid Item 37—NOT USED

Bid Item 32 38 – Temporary Inlet Bulkheads (Lump Sum): This Bid Item covers all work associated with the construction of the temporary box culvert bulkheads and associated storm drain system at the East and West Inlets as required by the Contract Documents. Item includes, but is not limited to, steel support, stoplogs, blocking, pipe, backfill, and crushed rock.

Payment will be made on a Lump Sum basis.

1.10 PAYMENT

1.10.1 General

A. Payment shall be in accordance with the provisions of Section 00700; CONTRACT CLAUSES.

- ~~A. Payment for the Work performed on this Contract shall be based on monthly updates of the Contractor's cost loaded CPM progress schedule.~~
- ~~B. The dollar value of each activity on the cost loaded CPM schedule must be a true and accurate representation of the actual cost of the Work within that activity. The dollar value shall be the sum of equipment, material, labor, overheads and profit charges required to complete all work included in the activity.~~
- ~~C. The total of all costs shall equal the total Contract price and shall be in conformance with the bid proposal.~~
- ~~D. Separate cost loaded activities shall be provided for the procurement and delivery, installation and testing, and start up of all major equipment.~~
- ~~E. If applicable, the Contractor shall break out itemized payments for any stored equipment and materials on the Project Site as individual activities on the cost loaded CPM.~~
- ~~F. The Government reserves the right to withhold amounts when Contractor falls behind schedule on activities critical to achieving specified milestone dates or completing the Work on schedule in accordance FAR 52.232-5 "Payments under Fixed Price Construction Contracts", Subparagraph (e) Retainage.~~

1.10.2 Submittal Procedure

- ~~A. Requests for payment will include the following steps:~~
- ~~1. The Contractor submits a marked-up copy of the previous month's schedule including its~~

~~evaluation of the Work that has been completed in that period by percentage of activity complete.~~

- ~~—— 2. The Contracting Officer reviews submission within 5 days.~~
- ~~—— 3. The Contractor meets with the Contracting Officer to review and reach an agreement upon percentages. When an agreement cannot be reached, the Contracting Officer's value will be used.~~
- ~~—— 4. The Contractor submits an Application for Payment and an updated schedule that reflects the changes agreed upon in the above mentioned meeting.~~
- ~~—— B. The Contractor shall execute certification with a signature of a responsible officer of the Contractor's firm, as the first signature on the Application of Payment.~~
- ~~—— C. Progress payments shall not be construed as acceptance of any part of the Work.~~

1.10.3 Timing and Turnaround of Progress Payments

- ~~—— A. Prior to submitting the first payment request, the Contractor shall have developed a cost loaded schedule acceptable to the Contracting Officer outlining the values of each element of the Work. Once the schedule has been accepted, it will be the basis of payment.~~
- ~~—— B. Each Progress Payment Estimate prepared by the Contractor shall indicate the percentages of completion and the materials for which payments are to be requested. A review will be performed by the Contracting Officer to confirm that the general accounts are acceptable.~~
- ~~—— C. After agreement on final determination of quantities and their associated value, based on percent complete of Contract schedule activities, the Contractor shall submit a completed Request for Payment for the pay period, and shall perform all extensions and arithmetic, and provide backup documentation, etc., on the prescribed forms.~~
- ~~—— D. The end date for each monthly pay period shall be established as the last day of each month. Certified payrolls shall accompany each payment request.~~
- ~~—— E. Where progress payments are approved prior to the 15th of the month, it is the intention of the Contracting Officer to make payments to the Contractor by the 20th of the following month. Failure on the part of the Contracting Officer to make said payment shall not be cause for an increase to cost unless such delay to payment exceeds 90 days from the date of approval.~~
- ~~F. Final payment shall be in accordance with the Contract Documents.~~

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

- END OF SECTION -

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TITLE AND LOCATION GUADALUPE RIVER PROJECT, CONTRACT 3A, SANTA CLARA COUNTY, CA															CONTRACTOR									SPEC. No. 1182	
TRANSMITTAL No. a	ITEM No. b	SECTION PARAGRAPH No. c	DESCRIPTION OF ITEMS SUBMITTED D	TYPE OF SUBMITTAL										CLASSIFI CATION		RE V I E W E R q	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVT ACTION		REMARKS z
				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
			Section 01050																						
		1.2	Resume of Surveyor					X						X											
		1.2	Changes to Control Plan								X			X											
		1.2	Survey Data								X			X											
		1.2	Survey Certificate							X				X											
			Section 01270																						
		1.7	Schedule of Values				X							X											
			Section 01320																						
		1.3	Preliminary Project Schedule						X					X											
		1.3	Initial Project Schedule						X					X											
		1.3	Periodic Schedule Updates						X					X											

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			Section 01330																						
		1.3	Working As-Built Drawings		X								X												
		1.3	Final As-Built Drawings		X								X												
		1.3	Submittal Register								X		X												
			Section 01351																						
		1.3	*Draft Site Safety and Health Plan	X									X												
		1.3	*Final Site Safety and Health Plan	X									X												
		1.3	*Work Zones		X								X												
		1.3	*Decontamination Areas		X								X												
		1.3	*Monitoring and Sampling Results						X				X												
		1.3	Site Control Logs						X				X												
			Section 01354																						
		1.3	List of Features Requiring Protection	X									X												

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L p		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	*Environmental Protection Plan	X									X												
		1.3	*Construction Area Fish Management Plan	X									X												
		1.3	*Vegetation Protection Plan	X									X												
		1.3	Commercial Borrow Plan	X									X												
		1.3	*Hazardous and Toxic Materials Contingency Plan	X									X												
		1.3	*Groundwater Dewatering and Treatment Plan	X									X												
		1.3	Spill Response Plan	X									X												
		1.3	*Storm Water Pollution Prevention Plan Addendum	X									X												
		1.3	*Pre-Construction Photographs and Post-Construction Photographs depicting the environment						X				X												
		1.3	*Notices of Non-Compliance and Notices of Violation						X				X												

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		1.3	*Fish Management Report					X					X												
		1.3	Exception Reports					X					X												
		1.3	Recordkeeping					X					X												
			Section 01451																						
		1.2	Contractor Quality Control (CQC) Plan	X									X												
		1.2	Daily CQC Reports					X					X												
		1.2	Documentation					X					X												
			Section 01500																						
		1.2	Contract Pricing Proposal	X									X												
		1.2	Equipment Data Form	X									X												
		1.2	*Staging Area and Site Plan	X									X												
		1.2	*Noise Monitoring Plan	X									X												

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.2	New Julian Access Plan	X									X												
		1.2	Procedures for Construction Near Transmission Lines Plan	X									X												
		1.2	*Traffic Communications Conduit Protection Plan	X									X												
		1.2	*Shop Drawings for Sanitary Sewer and Storm Drain Relocations, etc.		X								X												
		1.2	Accident Report						X				X												
			Section 01780																						
		1.2	As-Built Drawings								X		X												
		1.2	As-Built Record of Equipment and Materials								X		X												
		1.2	Pre-Final Inspection Punch List								X		X												
		1.2	Final Clean-Up List								X		X												
		1.2	Guarantees and Warranties								X		X												
		1.2	Release of Claims								X		X												

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L p		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.2	Survey Records								X			X											
		1.2	*Irrigation System O&M Manual									X	X												
			Section 02050																						
		1.2	*Work Plan	X										X											
			Section 02080																						
		1.3	*Groundwater Dewatering Plan	X										X											
		1.3	*Groundwater Treatment Plan	X										X											
		1.3	Dewatering Contractor Qualifications					X						X											
		1.3	Wastewater Treatment System Contractor Qualifications					X						X											
		1.3	Dewatering Installation								X		X												
			Section 02081																						

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	Dewatering Contractor License Number and Contact Names					X						X											
			Section 02101																						
		1.2	*Diversion Plan	X										X											
			Section 02151																						
		1.3	Design Calculations	X										X											
		1.3	Shop Drawings		X									X											
		1.3	Lateral Support		X									X											
		1.3	Qualifications					X						X											
		1.3	*Instrumentation Reports						X					X											
			Section 02200																						
		1.3	*Material Sources	X										X											

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L P	S U B M I T r	A P P R O V A L R E Q Q D B Y s	M A T E R I A L R E Q Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
		1.3	*Unstable Subgrade Stabilization Plan	X									X											
		1.3	*Wall Backfill Plan	X									X											
		1.3	*Soil Excavation and Disposal Plan	X									X											
		1.3	*Testing of Backfill Materials						X				X											
		1.3	*Quality Assurance Sample Collection and Analysis Test Report						X				X											
		1.3	*Sampling and Analysis Results Report						X				X											
		1.3	Hazardous Waste Disposal Manifests							X			X											
			Section 02215																					
		1.3	Mill Certificate for Geotextile Filter Fabric							X			X											
		1.3	Fabric Sample								X		X											
			Section 02216																					

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L p	S U B M I T r	A P P R O V A L R E Q Q D B Y s	M A T E R I A L R E Q Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
		1.3	Mill Certificate for Geosynthetic Wall Drain							X				X										
		1.3	Sample								X			X										
		1.3	Installation Procedure			X								X										
			Section 02217																					
		1.3	Geosynthetic Clay Liner Properties	X										X										
		1.3	Layout and Detail Drawings		X									X										
		1.3	Geosynthetic Clay Liner Samples								X			X										
			Section 02222																					
		1.3	Backfill Material Sources	X										X										
		1.3	Mix Design	X										X										
		1.3	Proposed Remediation of Unstable Foundation Material	X										X										
		1.3	Temporary Support Plan	X										X										

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		1.3	Methods, Procedures and Details for CLSM Placement	X										X											
		1.3	*Backfill Material Test Results						X					X											
			Section 02225																						
		1.3	*Testing						X					X											
		1.3	Unstable Subgrade Remediation Plan	X										X											
			Section 02270																						
		1.2	Inoculant Specification	X										X											
		1.2	Fiber Specification	X										X											
		1.2	Stabilizing Emulsion Specification	X										X											
		1.2	Method of Protection of Seeded Areas	X										X											
		1.2	Seed Mixture Sample								X			X											
		1.2	Inoculant Sample								X			X											

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L p	S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
		1.2	Work Plan								X			X										
		1.2	Invoices								X		X											
			Section 02271																					
		1.3	Rock Samples								X			X										
		1.3	Laboratory Test Results									X		X										
		1.3	Surveyed Cross Sections									X		X										
			Section 02272																					
		1.2	Samples								X			X										
		1.2	Mock Up								X			X										
			Section 02372																					
		1.3	Installation Plan	X										X										

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L p	S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
		1.3	Drilled Shaft Survey	X									X											
		1.3	Concrete Mix Design	X									X											
		1.3	Qualifications					X					X											
		1.3	Qualifications of Firm Performing Cross Hole Sonic Logging					X					X											
		1.3	Non-Shrink Grout					X					X											
		1.3	Drilled Shaft Records								X		X											
		1.3	Cross-Hole Sonic Test Results and Analysis								X		X											
		1.3	Load Test Results								X		X											
		1.3	Concrete Test Results								X		X											
			Section 02410																					
		1.3	Pipe Installation Recommendations			X							X											
		1.3	Pipe Certificate							X			X											
		1.3	Pipe Samples								X		X											

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y		
			Section 02462																							
		1.4	Product Conformance	X										X												
		1.4	Shop Drawings		X									X												
		1.4	Installation Procedures			X								X												
		1.4	*Warranty					X						X												
		1.4	Color Samples								X			X												
			Section 02513																							
		1.3	Source of Aggregates	X										X												
		1.3	*Cerified Test Results							X				X												
		1.3	Job-Mix Formula					X						X												
			Section 02514																							
		1.3	Mix Design	X										X												

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	Sidewalk Samples								X			X											
		1.3	Field Density Tests									X		X											
			Section 02515																						
		1.3	Sieve Analysis						X					X											
		1.3	Material Samples								X			X											
		1.3	Mock-up Paving Section								X			X											
			Section 02517																						
		1.3	Shop Drawings		X									X											
		1.3	Stone Samples								X			X											
		1.3	Mock Up								X			X											
			Section 02518																						
		1.4	CCM Design	X										X											

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.4	Shop Drawings for CCM		X								X												
		1.4	Certificates for Cellular Concrete Blocks, Cables, Fittings, and Anchors							X			X												
		1.4	Samples of Cellular Concrete Blocks, Cables, Fittings, and Anchors								X		X												
		1.4	Hydraulic Performance Characteristics						X				X												
			Section 02525																						
		1.3	Three samples of each cobble type								X		X												
			Section 02541																						
		1.3	Gabion Layout Drawings		X								X												
		1.3	Stone Filling Reports						X				X												
		1.3	Gabion Materials Certificate							X			X												
		1.3	Stone Filling Samples								X		X												

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L p		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
			Section 02560																						
		1.4	*Street Closure Plans	X									X												
		1.4	*Construction Traffic Crossing Plan	X									X												
		1.4	*Detailed Electrical Plans for Temporary Signals and Lighting	X	X								X												
			Section 02577																						
		1.3	*Materials Conformance							X			X												
			Section 02720																						
		1.3	Miscellaneous Metal Parts Drawings		X								X												
		1.3	Pre-Cast Concrete Drawings		X								X												
		1.3	Installation Procedures			X							X												
		1.3	*Trench Dewatering Plan					X					X												

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L p		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	*Certificate for Pipe for Storm Drains							X				X											
		1.3	*Certificate for Portland Cement							X				X											
			Section 02722																						
		1.3	Material Source	X										X											
		1.3	*Sampling and Testing Report						X					X											
		1.3	*Field Density Tests Report						X					X											
			Section 02730																						
		1.3	Frame and Covers		X									X											
		1.3	Testing Schedule				X							X											
		1.3	Manholes					X						X											
		1.3	*Sewage Flow Diversion					X						X											
		1.3	Odor Mitigation Plan					X						X											
		1.3	Sewage Diversion Plan					X						X											

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	Testing Procedures					X						X											
		1.3	Manhole Leakage Tests						X					X											
		1.3	Portland Cement							X				X											
			Section 02732																						
		1.3	Hydrostatic Test	X										X											
		1.3	*Sewage Flow Diversion Plan		X									X											
		1.3	Connections		X									X											
		1.3	Hydrostatic Test Results						X					X											
		1.3	*Boiling Adhesion Test						X					X											
		1.3	Frames and Covers							X				X											
		1.3	Polyvinyl Chloride Lining							X				X											
		1.3	High Density Polyethylene pipe							X				X											
		1.3	Ductile Iron Pipe							X				X											
		1.3	Joint Restraint System							X				X											

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				D A T A	D R A W I N G S	I N S T R U C T I O N S	S C H E D U L E S	S T A T E M E N T S	R E P O R T S	C E R T I F I C A T E S	S A M P L E S	R E C O R D S	O & M A N U A L S	I N F O O N L Y	G O V T A P P R O V A L		S U B M I T	A P P R O V A L R E Q D B Y	M A T E R I A L R E Q D B Y	C O D E	D A T E	S U B M I T T O G O V T	C O D E	D A T E	
			Section 02740																						
		1.4	Catalog Cuts and Product Data	X										X											
		1.4	Manufacturer’s Installation Instructions			X								X											
		1.4	*Manufacturer’s Warranty							X					X										
			Section 02748																						
		1.3	Field Quality Control						X					X											
		1.3	Sampling and Testing						X					X											
		1.3	*Manufacturer Test Reports							X					X										
		1.3	Bituminous Samples								X				X										
			Section 02795																						
		1.3	Manufacturer’s Literature	X										X											

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L P	S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x		D A T E y
		1.3	*Test Reports						X					X											
			Section 02811																						
		1.4	Design Analysis and Calculations	X										X											
		1.4	Spare Parts	X										X											
		1.4	Irrigation System		X									X											
		1.4	*As Builts		X									X											
		1.4	Sprinkler system			X								X											
		1.4	*Field Tests						X					X											
		1.4	*Irrigation System Certificate							X				X											
		1.4	*O & M Manual – Irrigation System										X	X											
			Section 02831																						
		1.3	Fence materials	X										X											

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			Section 02835																						
		1.3	Object Marker	X									X												
		1.3	Redwood Posts	X									X												
		1.3	Concrete Mix	X									X												
			Section 02920																						
		1.3	*Soils Report						X					X											
		1.3	*Soil Amendments							X				X											
			Section 02921																						
		1.3	Clay Loam Soil, CU Soil Tests and Crush Granite Stone Analysis Reports						X					X											
		1.3	Clay Loam, CU Soil Mix, Fertilizer Samples								X			X											

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			Section 02935																						
		1.3	Stabilizing Emulsion Specifications	X									X												
		1.3	Equipment List				X						X												
		1.3	Delivery Schedule				X						X												
		1.3	*Application of Pesticide					X						X											
		1.3	*Seeding Establishment Period					X						X											
		1.3	*Maintenance						X					X											
		1.3	*Certificate of Compliance							X				X											
			Section 02950																						
		1.3	*Application of Pesticide				X						X												
		1.3	Delivery Schedule				X						X												
		1.3	*Pesticide Treatment Plan Statements					X																	
		1.3	*Percolation Test						X					X											
		1.3	*Maintenance Period						X					X											

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		1.3	*Maintenance Report					X					X												
		1.3	Plant Material Photos							X															
		1.3	Bark Mulch							X			X												
			Section 03100																						
		1.3	Formwork Drawings		X								X												
			Section 03200																						
		1.3	Reinforcement Drawings		X								X												
		1.3	Reinforcement Steel						X				X												
			Section 03300																						
		1.3	Concrete Mix Designs	X									X												
		1.3	Concrete Placement Drawings		X								X												

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	Accessory Materials - Data and Installation Instructions			X							X												
		1.3	Hot Weather and Cold Weather Placement Procedures			X							X												
		1.3	Qualifications					X					X												
		1.3	*Testing and Inspection for Contractor Quality Control					X					X												
		1.3	Batch Plant Description or Ready Mix Certificates							X			X												
		1.3	Concrete Batch Tickets							X			X												
		1.3	Non-Shrink Grout							X			X												
			Section 03361																						
		1.3	Shotcrete Materials, Preparation, and Application	X									X												
		1.3	Qualifications					X					X												
		1.3	*Shotcrete Testing Reports					X					X												

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L p		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	Certification of Testing Laboratory							X				X											
			Section 04451																						
		1.3	Shop Drawings		X									X											
		1.3	Samples								X			X											
		1.3	Mock-up								X			X											
			Section 05500																						
		1.2	Anchor Bolt Layout and Shop Drawings for Railings		X									X											
		1.2	*Grating Panel Layout		X									X											
		1.2	Guardrail and Handrail Layout		X									X											
		1.2	Metal Bar Grating		X									X											
		1.2	Ladders		X									X											
		1.2	Steel Samples								X			X											

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L p	S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
		1.2	Miscellaneous Metal Items								X			X										
			Section 07131																					
		1.3	Waterproofing System		X									X										
		1.3	Installation			X								X										
		1.3	Materials								X			X										
			Section 09310																					
		1.3	Catalog Cuts and Product Data for Installation Materials	X										X										
			Section 09311																					
		1.3	Manufacturer's Literature	X										X										
		1.3	*Test Reports						X						X									
		1.3	Three Sample Pavers								X				X									

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M A N U A L S n	I N F O O N L Y o	G O V T A P P R O V A L P		S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	D A T E y	
		1.3	Grout for Color Selection								X			X											
		1.3	Mock-up of Concrete Tile Paving								X			X											
			Section 09800																						
		1.2	Manufacturer's Product Data	X										X											
		1.2	Instructions			X								X											
		1.2	Sample Panel								X			X											
			Section 10430																						
		1.6	Exterior Signs	X										X											
		1.6	Exterior Signs			X								X											
			Section 13100																						
		1.3	Concrete Drop Inlet			X								X											
		1.3	Drop Inlet and Frame Grate			X								X											

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				D A T A e	D R A W I N G S f	I N S T R U C T I O N S g	S C H E D U L E S h	S T A T E M E N T S i	R E P O R T S j	C E R T I F I C A T E S k	S A M P L E S l	R E C O R D S m	O & M M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L p	S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
		1.3	Fossil Filter			X							X											
		1.3	Concrete Drop Inlet							X				X										
		1.3	Drop Inlet Frame and Grate							X				X										
		1.3	Fossil Filter							X				X										
		1.3	Interlocking Paving Stone Samples								X			X										
			Section 13156																					
		1.3	Product Data	X										X										
		1.3	Layout Drawings		X									X										
		1.3	*Operation and Maintenance Manual										X	X										
			Section 13157																					
		1.3	Product Data	X										X										
		1.3	Manufacturer's Parts List, Maintenance and Operating Instructions										X	X										

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				D A T A e	D R A W I N G S F	I N S T R U C T I O N S g	S C H E D U L E S H	S T A T E M E N T S i	R E P O R T S J	C E R T I F I C A T E S K	S A M P L E S l	R E C O R D S M	O & M M A N U A L S n	I N F O O N L Y o		G O V T A P P R O V A L P	S U B M I T r	A P P R O V A L R E Q D B Y s	M A T E R I A L R E Q D B Y t	C O D E u	D A T E v	S U B M I T T O G O V T w	C O D E x	
			Section 13158																					
		1.3	Product Data	X									X											
		1.3	Layout and Installation Drawing for piping, electrical, control and lighting systems.		X								X											
		1.3	Project Record Drawings		X								X											
		1.3	*Operating and Maintenance Manual									X	X											
			Section 13300																					
		1.3	Manufacturer Cut Sheets									X		X										
		1.3	Instrumentation Specialist Qualifications					X					X											
		1.3	*Instrumentation Installation Plan	X										X										
			Section 16375																					

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				D A T A	D R A W I N G S	I N S T R U C T I O N S	S C H E D U L E S	S T A T E M E N T S	R E P O R T S	C E R T I F I C A T E S	S A M P L E S	R E C O R D S	O & M A N U A L S	I N F O O N L Y	G O V T A P P R O V A L		S U B M I T	A P P R O V A L R E Q D B Y	M A T E R I A L R E Q D B Y	C O D E	D A T E	S U B M I T T O G O V T	C O D E	D A T E	
		1.5	Manufacturer's Catalog	X									X												
		1.5	Material, Equipment, Fixture List	X									X												
		1.5	Installation Procedures	X									X												
		1.5	*Electrical Distribution System		X								X												
		1.5	*As-Built Drawings		X								X												
		1.5	*Field Testing						X				X												
		1.5	Materials and Equipment							X			X												
			Section 16528																						
		1.6	Materials Conformance	X									X												
		1.6	*Lighting System		X								X												
		1.6	*As-Built Drawings		X								X												
		1.6	*Operating Test						X				X												

NOTE

Submit one copy of each item in column d which is preceded by an asterisk (*) directly to the Santa Clara Valley Water District.

1.32 STONE PROTECTION AND AGGREGATE SOURCES

1.32.1 Stone Protection Sources

1.32.1.1 Quarry Stone

Quarry stone meeting the requirements of these specifications can be produced from the sources listed below:

- (a) San Vicente Quarry near Davenport, Santa Cruz County, California.
- (b) Logan Quarry near Aromas, San Benito County, California.
- (c) Pearce Quarry near Hollister, San Benito County, California.
- (d) Stonewall Canyon Quarry near Soledad, California.
- (e) Lexington Quarry, Los Gatos, Santa Clara County, California

1.32.1.2 Processing

Some selective processing may be required at the sites to achieve the specification requirements. Approval of a source is not to be construed as approval of all material from that site. The right is reserved to reject materials from certain localized areas or zones when such materials are unsuitable as meeting the specification.

1.32.1.3 Material Requirements

Material produced from a listed source shall meet all the requirements of Section 02271; STONE PROTECTION. Samples required for acceptance testing shall be provided as required by Section 02271; STONE PROTECTION.

1.32.1.4 Other Sources

Quarry Stone may be furnished from any of the above listed sources at the option of the Contractor. They may be furnished from any other source designated by the Contractor and approved by the Contracting Officer, subject to the conditions stated in these specifications.

1.32.2 Aggregate Sources

1.32.2.1 Listed Sources

Aggregates meeting the requirements of specifications can be produced from the sources listed below:

- (a) Alameda Creek - near Fremont, California
- (b) Logan Creek - near Aromas, California
- (c) Livermore Valley - between Pleasanton and Livermore, California
- (d) Permanente Quarry - Permanente, California
- (e) Felton - Felton, California

1.32.2.2 Other Sources

Aggregates may be furnished from any of the above listed sources at the option of the Contractor. They may be furnished from any other source designated by the Contractor and approved by the Contracting Officer, subject to the conditions stated in these specifications.

1.33 CONTAMINATED SOIL AND GROUNDWATER

(1) Contaminated soil and groundwater has been identified within and adjacent to the Limits of Work. Known areas of contamination are summarized in Section 01351; SAFETY, HEALTH,

SECTION 02080

DEWATERING

PART 1 GENERAL

1.1 SUMMARY

The work specified in this section includes, but is not limited to, well system installation and development, pumping, piping, and other measures required for lowering the ground water level in all excavations, *except drilled shafts*, throughout the period that excavation is taking place below the groundwater table until construction work up to ground surface is complete. The work in this section also includes the provision, mobilization, maintenance, operation, personnel, power, and all other items for a Wastewater Treatment System.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only. The latest edition available on the date of the Notice of Inviting Bids shall be used.

SANTA CLARA VALLEY WATER DISTRICT

Ordinance 90-1	Classification, Construction, and Destruction of Wells and Other Deep Excavations; Requiring the Destruction of Abandoned or Unused Wells
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Booklet	Standards for the Construction and Destruction of Wells and other Deep Excavations in Santa Clara County
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CALIFORNIA DIVISION OF WATER RESOURCES

Bulletin 74-90	Standards for construction, modification, rehabilitation, and destruction of water wells, monitoring wells, and cathodic protection, supplement to Bulletin 74-81, entitled California Well Standards: Water Wells, Monitoring Wells, Cathodic Protection Wells.
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1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330; SUBMITTAL PROCEDURES.

SD-01 Data

Well Standards Bulletin 74-90, and “Standards for the Construction and Destruction of Wells and Other Deep Excavation in Santa Clara County” published by the SCVWD.

Filter packs in wells shall have a gradation adequate to prevent erosion of the foundation materials. Likewise, the well screen shall have a slot size to prevent erosion of the filter pack (or of the foundation materials if a filter pack is not used).

During development of the wells the Contractor shall measure the solids content of the discharge water from each well with an Imhoff Cone, a Rossum Tester or other approved device. If the discharge of any well, after two hours of continuous pumping, yields more than 10 ppm of solids, the well shall be redeveloped. If the well cannot be brought within the limit, it shall be abandoned.

3.2.2 Groundwater Level During Dewatering

The Contractor shall be responsible for lowering the groundwater surface to the specified level below the base of all excavations so those excavations and associated shoring, concrete placement, and backfill are accomplished in the dry. The dewatering operations shall be conducted to preclude free standing water at the site, and shall keep all temporary and final subgrade areas well-graded and drained. Groundwater shall be maintained at the specified level below the excavated surface until all concrete placement, backfill, and other associated work has been completed and as further described in the following paragraphs.

3.2.2.1 Culvert and Retaining Walls

The groundwater level shall be maintained five feet below the lowest point of the excavation until the concrete culvert and wall backfill has been completed. Groundwater levels shall also be maintained five feet below excavation for retaining walls, *except drilled shaft retaining walls*, until backfill behind those retaining walls has been completed.

3.2.2.2 Gabions and CCM

During gabion and CCM construction, the groundwater level shall be maintained below the subgrade until the first course of gabions above the CCM has been placed.

3.2.2.3 Sanitary Siphons, Sewers, and Other Utilities

During any utility work within the contract requiring trenching, the groundwater level shall be maintained below the bottom of the trench until backfilling of the trench has been completed.

3.2.2.4 Other Excavations

During any work requiring excavation below the groundwater surface, the groundwater level shall be maintained below the bottom of the excavation until all work including backfilling has been completed.

3.2.3 Seepage

If seepage occurs from the face or base of the excavation, the Contractor shall immediately employ such methods and procedures as are required to maintain a stable excavation and to lower the groundwater so that such seepage does not occur. Methods may include increasing the

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SECTION 02217

GEOSYNTHETIC CLAY LINER

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SECTION 02217

GEOSYNTHETIC CLAY LINER

PART 1 GENERAL

1.1 SUMMARY

The work specified in this section includes, but is not limited to, furnishing all plant, labor, material, and equipment and performing all operations required for furnishing, hauling, and placing the geosynthetic clay liner, complete, as specified herein and shown on the Drawings, and maintaining the geosynthetic clay liner until concrete is placed and accepted.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only. The latest edition available on the date of the Notice of Inviting Bids shall be used.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C 33	Standard Specification for Concrete Aggregates.
ASTM D 2216	Determination of Water (Moisture) Content of Soil and Rock
ASTM D 4632	Grab Breaking Load and Elongation of Geotextiles
ASTM D 4643	Determination of Water (Moisture) Content of Soil by the Microwave Oven Method
ASTM D 4833	Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products
ASTM D 5887	Measurement of Index Flux through Saturated Geosynthetic Clay Liner Specimens Using a Flexible Wall Permeameter
ASTM D 5888	Storage and Handling of Geosynthetic Clay Liners
ASTM D 5890	Swell Index of Clay Mineral Component of Geosynthetic Clay Liners
ASTM D 5891	Fluid Loss of Clay Component of Geosynthetic Clay Liners
ASTM D 5993	Measuring Mass Per Unit of Geosynthetic Liner

1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330; SUBMITTAL PROCEDURES.

SD-01 Product Data

Geosynthetic Clay Liner (GCL) Properties; GA.

The Contactor shall furnish to Contracting Officer certified raw and roll material data sheets. If needle punching or stitch bonding is used in construction of GCL, the certification shall indicate that the GCL has been continuously inspected for broken needles using an in-line metal detector and all broken needles have been removed. The certified data sheets shall be attested to by a person having legal authority to bind the GCL manufacturing company. Certified test results shall be submitted 45 days prior to installation.

SD-04 Drawings

Layout and Detail Drawings; GA

GCL panel layout and penetration detail drawings a minimum of 14 days prior to placement.

SD-14 Samples

Geosynthetic Clay Liner (GCL) Samples; FIO

The Contractor shall provide to the Government geosynthetic clay liner samples for testing to determine compliance with any or all of the requirements in this specification. The Contractor shall submit the specified information and samples a minimum of 45 days prior to the beginning of installation of the same geosynthetic clay liner. All samples provided shall be from the same production lot as will be supplied for the contract, and shall be the full manufactured width of the geosynthetic clay liner. Samples submitted for testing shall be identified by manufacturers lot and batch number, date of sampling, contract number, and applicable specifications.

1.4 SHIPMENT AND STORAGE

Delivery, storage, and handling of GCL shall be in accordance with ASTM D 5888. Tears in packaging shall be repaired to restore a waterproof protective barrier around the GCL. Unloading of the rolls from the delivery vehicles shall be done preventing damage to the GCL and its packaging. Each shipping document shall include a notation certifying that the geotextile is in accordance with the manufacturer's certificate and guarantee previously submitted to the Government.

Field storage shall be in flat dry areas where water cannot accumulate and the GCL rolls can be protected from damage.

1.5 HANDLING

Rolls shall not be dragged, lifted by one end, or dropped to the ground from the delivery vehicle. A pipe or solid bar of sufficient strength to support the full weight of the roll without significant bending shall be used for all unloading and handling activities. The diameter of the pipe shall be small enough to be easily inserted through the core of the GCL roll. Chains shall be used to link the ends of the core pipe to the ends of a spreader bar. The spreader bar shall be wide enough to prevent the chains from rubbing against the ends of the GCL roll. Alternatively, a stinger bar protruding from the end of a forklift or other equipment may be used. The stinger bar shall be at least three-fourths the length of the core and also must be capable of supporting the full weight of the GCL without significant bending. If recommended by the manufacturer, a sling handling method utilizing appropriate loading straps may be used.

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Geosynthetic Clay Liner

GCL shall be a manufactured product consisting of a sodium montmorillonite clay (bentonite) layer evenly distributed between two geotextiles. GCL shall conform to the property requirements listed in Table 02217-1 and shall be free of tears, holes, or other defects. Encapsulating geotextiles shall be mechanically bonded together using a needle punch or stitch bonding process. Needle punched and stitch bonded GCLs shall be continuously inspected for broken needles using an in-line metal detector and broken needles shall be removed.

2.1.2 Sand

Sand shall conform to ASTM C33 Specification for fine aggregate.

PART 3 EXECUTION

3.1 INSTALLATION OF THE GEOSYNTHETIC CLAY LINER

3.1.1 General

GCL shall be placed in the manner and at the locations shown on the Drawings. At the time of installation, the liner shall be rejected if it contains defects, rips, holes, flaws, deterioration or damage incurred during manufacture, transportation or storage.

3.1.2 Protection

GCL shall be protected from damage prior to and during the placement of adjacent fill and concrete construction. Horizontal portions of the liner shall be covered by 2 inches of sand the same day of installation. In no case shall any type of equipment be allowed on unprotected GCL. GCL installed on vertical surfaces shall be protected from weather by plastic sheeting until just prior to concrete placement. Installation of GCL on vertical surfaces shall be scheduled to minimize the time it is exposed prior to concrete placement.

3.1.3 Installation

GCL shall be installed in accordance with the manufacturer's recommendations, subject to review and approval by the Government. Care shall be taken not to damage or displace the geosynthetic clay liner during concrete construction. Liner panels or sheets shall be arranged, lapped, and properly shingled to preclude contamination by adjacent backfill material. Seams shall be lapped a minimum of 6 inches and attached firmly using manufacturer recommended adhesives, nails, tape or equivalent system. Vertical seams and seams at the ends of panels of sheets shall be staggered a minimum of 24 inches.

3.1.4 Repairs

Holes or tears in GCL shall be repaired by placing a patch of GCL extending a minimum of 12 inches beyond the edges of the hole or tear on all sides. If recommended by the manufacturer, granular bentonite or bentonite mastic shall be applied in the overlap area. Patches shall be secured with a construction adhesive or other approved methods as recommended by the manufacturer

3.1.5 Penetrations

Penetration details shall be as recommended by the GCL manufacturer. As a minimum, pipe penetrations shall incorporate a collar of GCL wrapped around the pipe and securely fastened. Dry bentonite or bentonite paste shall be placed around the penetration for additional protection

3.1.6 Testing

3.1.6.1 Samples

Samples shall be collected by the Contractor upon delivery to the site at the request of the Contracting Officer. Samples shall be identified with a waterproof marker by manufacturer's name, product identification, lot and roll number. The date, a unique sample number, the machine direction, and the top surface of the GCL shall also be noted on the sample. The outer layer of the GCL roll shall be discarded prior to sampling a roll. Samples shall then be collected by cutting the full-width of the GCL sheet a minimum of 3 feet wide in the machine direction. After cutting, the GCL sample shall be manually rolled around a core at least 3.0 inches in diameter. The GCL shall be wound on the core without slack. Strapping tape a minimum of 2 inches in width shall then be wound around the sample in at least two places to secure the loose end. A minimum of two layers of plastic sheeting shall be used to wrap the GCL sample roll for shipment. A thin cellophane material which covers the entire sample a minimum of three times shall be used as the inner wrapping. The outer wrapping shall be at least 6 mils in thickness and shall be wrapped and fastened to minimize the amount of GCL shifting within the wrapping.

3.1.6.2 Conformance Tests

Samples shall be tested by the Contractor to determine bentonite mass per unit area (ASTM D 5993) on each sample submitted.

Table 02217-1: GCL PROPERTY REQUIREMENTS

Physical Property	Test Procedure	Acceptable Values ++
Bentonite		
Swell Index Test, (min)	ASTM D 5890	24 mL
Fluid Loss, (max)	ASTM D 5891	18 mL
Composite		
Sodium Bentonite Content, MARV (See Note 2)	ASTM D 5993	0.75lb/sq. ft.
Tensile Strength, MARV	ASTM D 4632	80 lbs/in
Index Flux, (max)	ASTM D 5887	1 x 10E-8 (m ³ /m ²)/s ²
Puncture Resistance	ASTM D 4833	100 psi

Note 1: MARV = minimum average roll value

Note 2: Bentonite mass/unit area shall be computed at 0 percent moisture content. Moisture content shall be determined by ASTM D 2216 or ASTM D 4643. Bentonite mass/unit area is exclusive of glues added to the bentonite.

END OF SECTION

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SECTION 02541

WIRE MESH GABIONS

PART 1 GENERAL

1.1 SUMMARY

The work specified in this section includes, but is not limited to, the furnishing all plant, labor, material, and equipment necessary for assembling, filling, and tying open wire mesh rectangular compartmented gabions placed on a prepared foundation as specified herein, and in accordance with the lines, grades, and dimensions shown on the Drawings or otherwise established in the field by the Contracting Officer

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only. The latest edition available on the date of the Notice of Inviting Bids shall be used.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

ASTM A 90	Standard Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles.
ASTM A 239	(1995) Test Method for Locating the Thinnest Spot in a Zinc (Galvanized) Coating on Iron or Steel Articles by the Preece Test (Copper Sulfate Dip)
ASTM A 641	(1998) Specification for Zinc Coated (Galvanized) Carbon Steel Wire
ASTM A 853	Specification for Steel Wire, Carbon, for General Use
<i>ASTM A 974</i>	<i>Welded Wire Fabric Gabions and Gabion Mattresses</i>
ASTM C 88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C 127	Specific Gravity and Absorption of Coarse Aggregate
ASTM C 535	Resistance to Degradation of Large Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM D 1141	Substitute Ocean Water

ASTM D 2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)

ASTM G 23 Operating Light and Water Exposure Apparatus (Carbon Arc Type) for Exposure of Nonmetallic Materials

FEDERAL SPECIFICATIONS (Fed. Spec.):

QQ-W-461 (Rev. H) Wire, Steel, Carbon (Round, Bare, and Coated)

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330; SUBMITTAL PROCEDURES:

SD-04, Drawings

Gabion Layout; GA

Gabion layout drawings shall be submitted to the Contracting Officer for approval not less than 30 days prior to the start of gabion construction. Gabion layout drawings shall include locations of tree pits.

SD-09, Reports

Stone Filling; GA

Test results 30 days prior to delivery of stone to site.

SD-13, Certificates

Gabion Materials; FIO

For each shipment of materials to the site, the Contractor shall furnish the Contracting Officer, in duplicate, a manufacturer's certificate or affidavit signed by a legally authorized official from the company manufacturing the gabion units, that all material contained within that shipment meets the composition, physical, and manufacturing requirements stated in this specification.

SD-14, Samples

Stone Filling; GA

Samples of stone fill material submitted for approval prior to delivery.

1.4 DEFINITIONS

Gabion: Compartmented rectangular basket containers with a minimum dimension greater than 12 inches, fabricated from galvanized steel triple twisted wire mesh with hexagonal openings, and filled with clean, durable stone.

PART 2 PRODUCTS

2.1 WIRE MESH GABIONS

2.1.1 Twisted Wire Mesh Gabions and Gabion Mattresses

Gabion basket units shall be of nonraveling construction and fabricated from a triple twisted hexagonal wire mesh of hot dipped galvanized steel wire having a minimum diameter of 0.118 inch after galvanization. The steel wire shall be galvanized prior to fabrication into mesh. All gabion diaphragm and frame wire shall equal or exceed Fed. Spec. QQ-W-461 (ASTM A 853, ASTM A 641), possess medium tensile strength, and a Finish 5, Class 3 coating of not less than 0.80 oz./sq.ft. of uncoated wire surface. The weight of zinc coating shall be as determined by ASTM test designation A 90. The grade of zinc used for coating shall be High Grade or Special High Grade as prescribed in ASTM B 6, Table 1. The uniformity of coating shall equal or exceed four 1-minute dips by the Preece Test, as determined by ASTM A 239. Mesh openings shall be hexagonal in shape, and uniform in size measuring no more than approximately 3-1/4 inches by 4-1/2 inches. Selvedge or perimeter basket frame wire shall be of heavier gauge than the wire mesh with a minimum diameter after galvanization of 0.15 inch. Wire used for lacing or as internal connecting wire within basket cells may be of soft tensile strength and of lighter gauge with a minimum diameter of 0.0866 inch after galvanization.

Gabions shall be fabricated in such a manner that the sides, ends, lid, and diaphragms can be assembled at the construction site into rectangular baskets of the sizes specified and shown on the drawings. Gabions shall be of single unit construction, i.e., the base, lid, ends and sides shall be either woven into a single unit or one edge of these members connected to the base section of the gabion in such a manner that strength and flexibility at the point of connection is at least equal to that of the mesh. Where the length of the gabion exceeds one and one-half its horizontal width, the gabion shall be equally divided by diaphragms into cells whose length does not exceed the horizontal width. Diaphragms shall be of the same mesh and gauge as the body of the gabions. The gabion shall be furnished with the necessary diaphragms secured in proper position on the base in such a manner that no additional tying at this juncture will be necessary. All perimeter edges of the mesh forming the gabion shall be securely selvedged so that the joints formed by tying the selvedges have at least the same strength as the body of the mesh. Lacing wire or connecting wire shall be used in sufficient quantity for securely fastening all diaphragms and edges of the gabion.

2.1.2 Welded Wire Mesh Gabions and Gabion Mattresses

Welded wire mesh Gabions [and Mattresses] shall consist of welded wire fabric, which is made from uncoated wire, and the fabric is subsequently zinc-coated after fabrication (Style 2 in conformance with ASTM A 974) and shall comply with the requirements of ASTM A 974. Gabions [and Mattresses] shall be manufactured with a welded wire mesh composed of a series of longitudinal and transverse steel wires arranged substantially at right angles to each other, and welded together at the points of intersection by electrical resistance welding to form fabricated sheets. Gabion [and mattress] sizes, wire diameters, mesh opening sizes, and tolerances shall comply with the requirements of ASTM A 974 (Tables 1, 2, 3, and Sections 9). The metallic coating shall conform to ASTM D 641 and be a Class 3 coating of not less than 0.85 oz./sq.ft. of uncoated wire surface. The weight of zinc coating shall be as determined by ASTM test designation ASTM A 90 and ASTM A 974. The grade of zinc used for coating shall be High Grade or Special High Grade as prescribed in ASTM B 6, Table 1. The uniformity of coating shall equal or exceed four 1-minute dips by the Preece Test, as determined by ASTM A 239.

Spiral binders, lacing wire, and stiffeners shall be made of wire having a tensile strength of hard drawn in accordance with ASTM A 853, having the same coating material as the welded wire fabric and conforming to ASTM A 641.

2.2 ALTERNATIVE WIRE FASTENERS FOR GABIONS

2.2.1 General

Subject to approval of the Contracting Office, wire fasteners including interlocking fasteners, ring fasteners, twist ties, and spiral binders may be used in lieu of lacing wire. When seeking such approval, the Contractor shall demonstrate to the satisfaction of the Contracting Officer:

- a. That the proposed fastener system can consistently produce a joint with a strength of 1,400 pounds per lineal foot when tested in accordance with paragraph 2.2.3
- b. That the proposed fastener system does not cause damage to the protective coating on the wire;
- c. That the Contractor has the proper equipment and trained employees to correctly install the fasteners; and
- d. That proper installation can be readily verified by visual inspection.

The Contractor shall provide a complete description of the fastener system, including the number of fasteners required, the number and size of wires that fastener is capable of properly joining, and a description of a properly installed fastener, including drawings or photographs if necessary. A properly installed fastener shall meet the same requirements as that specified for the fasteners in the paragraph 2.2.3. If gages or other aids are needed to verify the proper installation of the fasteners, the Contractor shall furnish the Government such gages or aids, in

such number as may reasonably be required, for the use of Government inspectors. If more than one wire fastener is proposed (e.g. different gage or length of wire) for different joints, the fasteners shall be readily distinguishable. Alternate wire fasteners shall not be used to join more wires, or larger wires, than for which they were tested and approved. As a minimum, a fastener shall be installed at each mesh opening at the location where mesh wire meets selvage or edge wire. Alternate wire fasteners shall not be used to close basket lids unless specifically approved for that purpose. When seeking approval to use alternate wire fasteners to close basket lids, the Contractor shall demonstrate to the satisfaction of the Contracting Officer that the fasteners can be properly installed on a properly filled gabion without stretching the gabion to the point that the gabion, or the protective wire coating, is damaged.

2.2.2 Wire Fasteners Materials

Galvanized wire fasteners shall be used with galvanized gabions. Galvanized wire fasteners, except twist tie and spiral binder fasteners shall conform to ASTM A 764, Finish 1 with Type III coating. Twist tie or spiral binder fasteners shall meet the requirements of lacing wires as specified in Paragraph 2.1.

2.2.3 Testing

Test records made within 5 years by certified laboratories and Government agencies will be used to determine the acceptability of wire fasteners. Samples of wire fasteners with their certified test records shall be submitted at least 60 days in advance to the Contracting Officer for approval. The Government reserves the right to test additional samples to verify the submitted test records at the Government's expense. When the first test results indicate that the fasteners do not meet the specified requirements, the additional test will be at the Contractor's expense. The fasteners will be rejected after two tests failing to meet the requirements. All types of fasteners including fasteners made of stainless steel shall be subject to the salt spray test and pull-apart resistance test.

- a) Salt Spray Test – A set of two identical rectangular gabion panels, each with a width about 10-1/2 mesh openings along a selvage wire, shall be jointed by properly installed wire fasteners along the two selvage wires so that each fastener confines two selvage and two mesh wires. If the fasteners are also to be used to joint two individual empty gabion baskets, two additional selvage wires which are each mechanically wrapped with mesh wires shall be included so that each fastener confines four selvage and four mesh wires. The set of the jointed panels shall be subject to salt spray test, ASTM B 117, for a period of not less than 48 hours. At the end of the test, the fasteners, the selvage, or mesh wires confined by the fasteners shall show no rusty spots on any part of the surface excluding the cut ends. A properly installed fastener shall meet the following requirements:

- (1) Each interlocking fastener shall be in a locked and closed position.

- (2) Each ring fastener shall be closed, and the free ends of the fastener shall overlap a minimum of 1 inch.
 - (3) Each twist tie shall be closed and maintain a minimum of two full turns.
 - (4) The spiral binder shall be tied at both ends.
- b. Pull-Apart Resistance Test- A new set of the jointed panels, which are prepared by the same method as specified in the salt spray test but without being subject to the 48-hour salt spray test, shall be mounted on a loading machine with grips or clamps such that the panels are uniformly secured along the full width. The grips or clamps shall be designed to transmit only tension forces. The load will then be applied at a uniform rate of 50 per second until failure occurs. The failure is defined as when the maximum load is reached and a drop of strength is observed with subsequent loading or the opening between any two closest selva wires, applicable to a fastener confining either two or four selva wires, becomes greater than 2 inches at any place along the panel width. The strength of the jointed panels at failure shall have a minimum of 1,400 pounds per linear foot.

2.3 STONE FILL

2.3.1 Quality

Stone shall be durable and of suitable quality to ensure permanence in the structure and climate in which it is to be used in addition to meeting the requirements shown in Table 02541-1. Stone shall be free of cracks, seams, and other defects that would tend to increase unduly its deterioration from natural causes or reduce its size to that which could not be retained in the gabion baskets. The inclusion of objectionable quantities of dirt, sand, clay, and rock fines will not be permitted. The sources from which the contractor proposes to obtain the material shall be selected well in advance of the time when the material will be required in the work. Representative samples of stone fill material shall be tested in accordance with Table 02541-1 and the results delivered to the Contracting Officer for approval 30 days prior to delivery of the stone.

Table 02541-1
Stone Requirements

<u>Test</u>	<u>Test Method</u>	<u>Requirement</u>
Specific Gravity	ASTM C 127	2.60 minimum
Absorption	ASTM C 127	2.0% maximum
Wetting & Drying	SPD Test Procedure(1)	No fracturing (3)
Magnesium Sulfate	ASTM C 88(2)	15% max. loss (4)
Abrasion Loss	ASTM C 535	50% maximum loss

In addition to the above tests, the stone shall be subjected to a petrographic and X-ray diffraction analysis. The stone must not contain any swelling type clay (illite or montmorillonite).

NOTE: (1): Test procedure wetting-and-drying tests: The initial step of the test is the careful examination of the entire sample and the selection of representative test specimens. The piece should be large enough to produce two cut slabs, 1 inch thick (+ 1/4 inch) with a minimum surface area of 30 square inches on one side. Two chunks approximately three by four inches are also chosen. The slabs and chunks are carefully examined under a low-power microscope and all visible surface features are noted and recorded. The specimens are then oven dried at 140 degrees F. for eight hours, cooled and weighed to the nearest tenth of a gram. The test specimens are photographed to show all surface features before the test. The chunks and slabs are then subjected to fifteen cycles of wetting and drying. One slab and one chunk are soaked in fresh tap water, and the other slab and chunk are soaked in salt water prepared in accordance with ASTM D 1141. Each cycle consists of soaking for sixteen hours at room temperature and then drying in an oven for eight hours at 140 degrees F. After each cycle the specimens are examined with the low-power microscope to check for opening or movement of fractures, flaking along edges, swelling of clays, softening of rock surface, heaving of micaceous minerals, breakdown of matrix material and any other evidence of weakness developing in the rock. The cycle in which any of these actions occurs is recorded. After fifteen cycles, the slabs and chunks are again carefully examined and all changes in the rocks are noted and recorded. The test specimens together with all flakes or particles which come off during the test are oven dried, weighed and photographed.

NOTE: (2): The test shall be made of 50 particles each weighing 100 grams, (± 20 grams), in lieu of the gradation given in ASTM C 88.

NOTE: (3): Weakening and loss of individual surface particles is permissible unless bond of the surface grains softens and causes general disintegration of the surface material.

2.3.2 Gradation

Stone fill used in the gabions shall be a well-graded mixture with sizes ranging between 4 inches and 8 inches with a D50 between 6 and 7 inches, based on U.S. Standard square mesh sieves. No stone with a dimension less than 3.5 inches shall be used. The shape of the stones shall not be flat and/or elongated as defined in ASTM D 2488. Rounded cobbles are unacceptable as stone fill for the gabions. Subrounded, subangular, and angular stone as defined in ASTM D 2488 is acceptable.

2.3.3 Gradation Sampling and Testing for Stone

Tests shall be performed by an independent commercial testing laboratory that is approved by the Contracting Officer in accordance with Section 01451; CONTRACTOR QUALITY CONTROL on samples selected by the Contracting Officer. The Government reserves the right to perform check tests and to use the Contractor's sampling and testing facilities to make the tests. Each sample, unless reduced in quantity by the Contracting Officer, shall consist of not less than 1/2 ton of materials and shall be selected at random from the production run. One

gradation test is required at the beginning of production prior to delivery of stone to the project with a minimum of one additional test halfway through placement. Test results shall be submitted to the Contracting Officer within 24 hours of the test completion.

2.4 GEOTEXTILE

Geotextile shall be Filter Fabric 1 as specified in Section 02215; GEOTEXTILE FILTER FABRIC.

PART 3 EXECUTION

3.1 FOUNDATION PREPARATION

Subgrade and crushed rock under gabions shall be in accordance with Section 02200; EXCAVATION AND BACKFILL. The crushed rock surface shall be maintained in a compacted condition free of voids, pits, or depressions. The crushed rock surface shall be inspected by the Contracting Officer, and no material shall be placed thereon until that area has been approved.

3.2 PLACEMENT OF SEPARATION/ FILTRATION GEOTEXTILE

The geotextile shall be placed as shown on the Drawings and as specified in Section 02215; GEOTEXTILE FILTER FABRIC.

3.3 GABION ASSEMBLY AND INSTALLATION

Empty gabion units shall be assembled individually and placed on the approved surface to the lines and grades as shown on the approved layout drawings and as shown on the Drawings or as directed by the Contracting Officer, with the sides, ends, and diaphragms erected in such a manner to insure the correct position of all edges and to ensure that the tops of all sides are level. All adjoining empty gabion units must be connected by tie wire lacing along the perimeter of their contact surfaces in order to obtain a monolithic structure. Lacing of adjoining basket units shall be accomplished by continuous stitching with alternating single and double loops at intervals of not more than 5 inches. All lacing wire terminals shall be securely fastened. Wire fasteners may be used in lieu of lacing wire for forming individual baskets and joining empty baskets together prior to stone filling. Approved fastener clips shall be spaced at 4 inches, unless otherwise approved by the Contracting Officer, and provide a tight connection. All joining shall be made through selvage-to-selvage or selvage-to-edge wire connection; mesh-to-mesh or selvage-to-mesh wire connection is prohibited except in the case where baskets are offset or stacked and selvage-to-mesh or mesh-to-mesh wire connection would be necessary. Wire fasteners shall not be used to tie or join stone-filled baskets, unless approved by the Contracting Officer. Each wire fastener shall be properly installed and closed as specified in Paragraph 2.2.3.a. As a minimum, a fastener shall be installed at each mesh opening at the location where mesh wire meets selvage or edge wire. The initial line of basket units shall be placed on the prepared geotextile surface in a direction parallel to stream flow, and partially filled to provide anchorage against deformation and displacement during filling operations. After adjoining

empty units are thoroughly laced, they shall be placed in tension and stretched to remove any kinks from the mesh and to a uniform alignment. The gabion unit shall be placed with its diaphragms lying perpendicular to the direction in which the stone fill will tend to move. The stretching of empty basket units shall be accomplished in such a manner as to prevent possible unraveling.

3.4 STONE FILLING

Stone filling operations shall carefully proceed with placement by hand or machine so as not to damage galvanized wire coating, to assure a minimum of voids between the stones, and the maintenance of alignment throughout the filling process. Undue bulging of the mesh shall be avoided. To avoid localized deformation, the basket units in any row are to be filled in stages consisting of maximum 12 inch courses, and at no time shall any cell be filled to a depth exceeding one foot more than the adjoining cell. The maximum height from which the stone may be dropped into the basket units shall be 36 inches. Along all exposed faces, the outer layer of stone shall be carefully placed and arranged by hand to ensure a neat and compact appearance. The last layer of stone shall be leveled with the top of the gabion to allow for the proper closing of the lid and to provide an even surface that is uniform in appearance. Lids shall be stretched tight over the stone fill using crowbars or lid closing tools, until the lid meets the perimeter edges of the front and end panels. The lid shall then be tightly laced with tie wire along all edges, ends, and internal cell diaphragms by continuous stitching with alternating single and double loops at intervals of not more than 5 inches. Special attention shall be given to see that all projections or wire ends are turned into the baskets. Where shown on the Drawings or as directed by the Contracting Officer, or where a complete gabion unit cannot be installed because of space limitations, the basket unit shall be cut, folded, and wired together to suit existing site conditions. The mesh must be cleanly cut and the surplus mesh cut out completely, or folded back and neatly wired to an adjacent gabion face. The assembling, installation, filling, lid closing, and lacing of the reshaped gabion units shall be carried out as specified above.

3.5 BACKFILL

Locations shown on the Drawings requiring backfill with crushed rock shall be in accordance with Section 02200; EXCAVATION AND BACKFILL.

3.6 DIMENSIONAL TOLERANCES

Locate vertical faces of baskets within 3 inches of required lines and grades. Locate horizontal faces of baskets within 2 inches of required lines and grades. Variations from true plane for both horizontal and vertical surfaces shall not exceed 2 inches in 8 feet.

3.7 COORDINATION WITH LANDSCAPING

Construction of gabions shall be coordinated with the work described in Section 02811; IRRIGATION SYSTEMS, Section 02950; PLANTING, and any other landscaping work within

the limits of the gabion structures as shown on the Drawings. Landscaping work within the limits of the gabions shall be performed concurrently with gabion assembly.

END OF SECTION